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GEOGRAPHICAL PHASES OF FARM PRICES: OATS.

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INTRODUCTION.

The price a farmer gets for his products varies greatly according to the section of the country in which he is situated. For some crops—the staples even—twice as high a price level frequently prevails in one part of the United States as in another.

The charting of geographic variations in farm or producers' prices has possibilities of practical usefulness. General price levels of most agricultural products fluctuate constantly, of course; but as between two sections the difference in the farmers' price of a product remains approximately the same. This price advantage or disadvantage differs with each product, so that a region of high prices for one may have low prices for another.

In this bulletin a survey is made of the sectional differences throughout the United States in the producers' prices of oats. Some consideration is also given to the influence of producing areas, trade routes and consuming centers upon such variations, and to local factors which qualify price advantage—factors such as relative yields in bushels to the acre and costs of production.

PRICE MAPS.

Sectional differences in the farmers' price of oats have been charted on Maps 1 and 2. In Map 1 a price unit of 10 cents has been used to show tendencies due to broad general influences, as distinct from the minor variations due to local factors. Minor variations are shown in Map 2, which is more detailed.

The farm prices of oats, by counties, which form the base of these maps—averages by counties for the five years, 1910-1914—are given in the Appendix; also a further explanation of data and methods.

SURVEY OF REGIONAL DIFFERENCES IN FARM PRICES OF OATS.

Lowest prices paid for oats to farmers are along the northern boundary of the United States, from Ohio westward. The minimum price (Map 2) is seen in adjoining parts of North Dakota and Minnesota, in the north-central part of the country. From this zone the price levels of oats graduate upward in the various directions. Eastward through the grain belt, as far as Ohio, prices rise slowly, but through the Atlantic States a more rapid rise takes place; the increases are gradual westward also, toward the Pacific coast. It is in the South that the higher prices are most noteworthy. Highest prices are paid to growers of oats in the southeast—in Florida, Georgia, and South Carolina—where the prices are more than twice as high as in the zone of minimum price.

PRICE LEVELS AND TRADE ROUTES.

Map 3 shows the relative importance of different parts of the United States in the production of oats, according to the census for the year 1909.

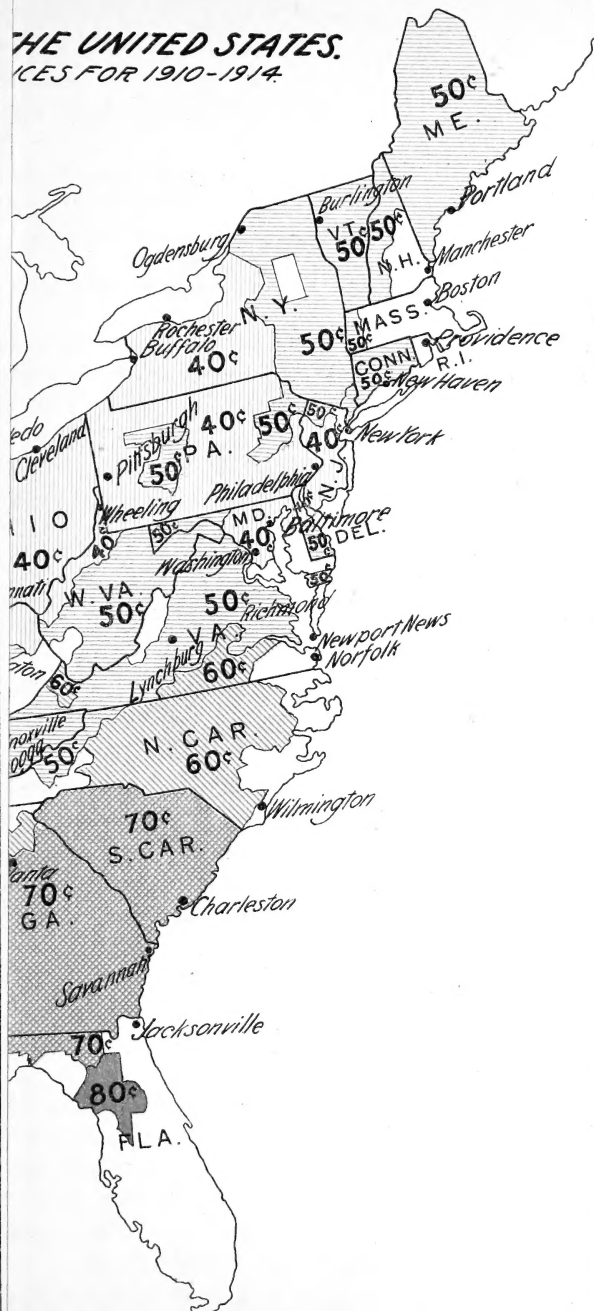
Although oats are a northern crop, their production within the United States is more general than that of any of the other cereals, because they can be grown on a variety of soils, because they fit readily into crop rotations, and because the practice of fall sowing in the South has made it possible to grow oats with good returns in that section. But the great bulk of the crop is produced in the sections of lowest price.

It will be observed that the zones of low price coincide with areas of dense and surplus production. A price divide appears between sections which ship to the East and South and those which ship to the West and South. The line of demarcation is indicated, roughly, by the territory of minimum price, which is remotely situated with regard to the markets in either direction.

Prices paid to producers of oats attain higher levels toward all points of the compass, rising steadily, as a rule, with distance from this region of lowest price. Emerging from the sections of large

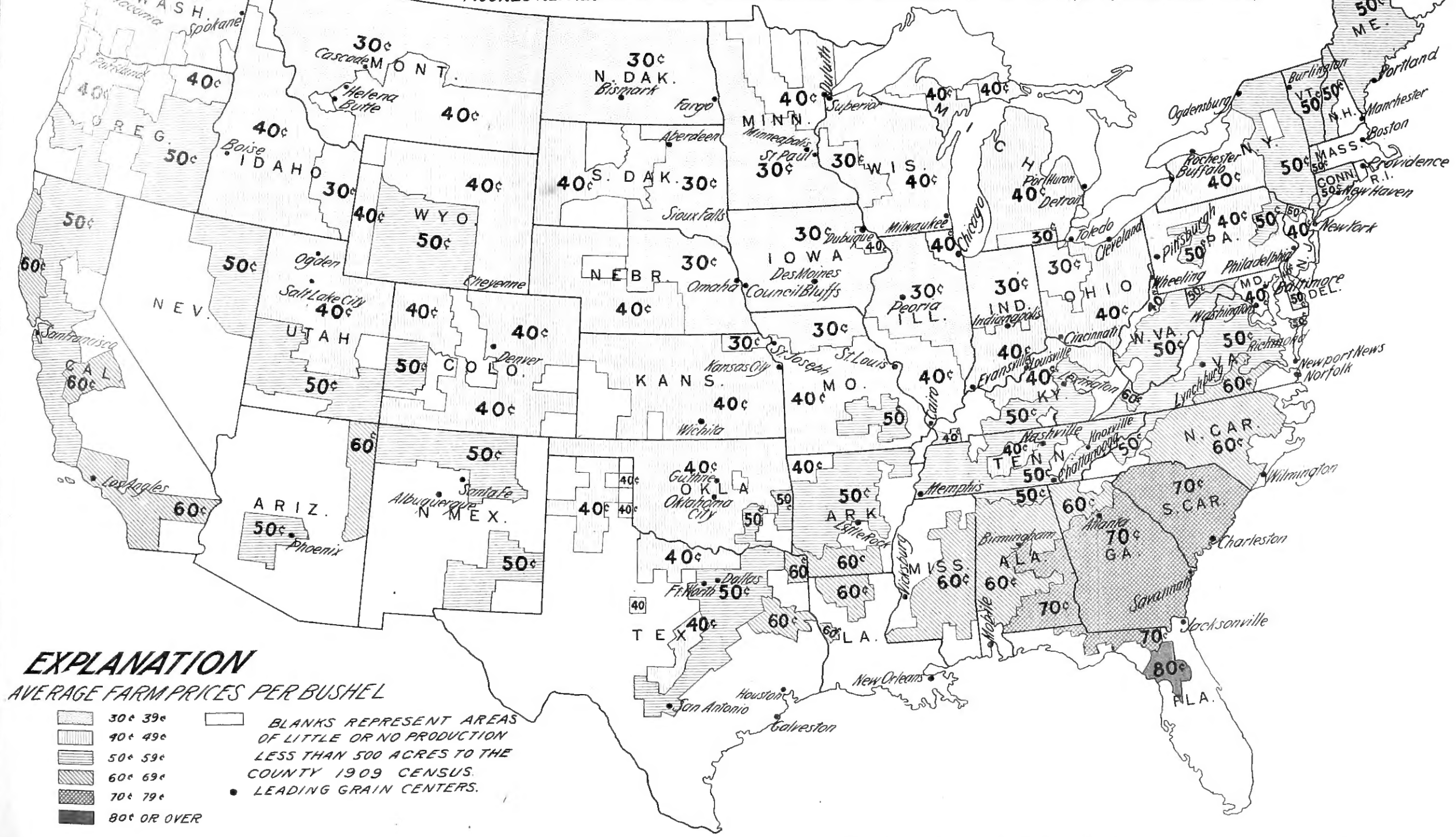
THE UNITED STATES.

ICES FOR 1910-1914.



OATS

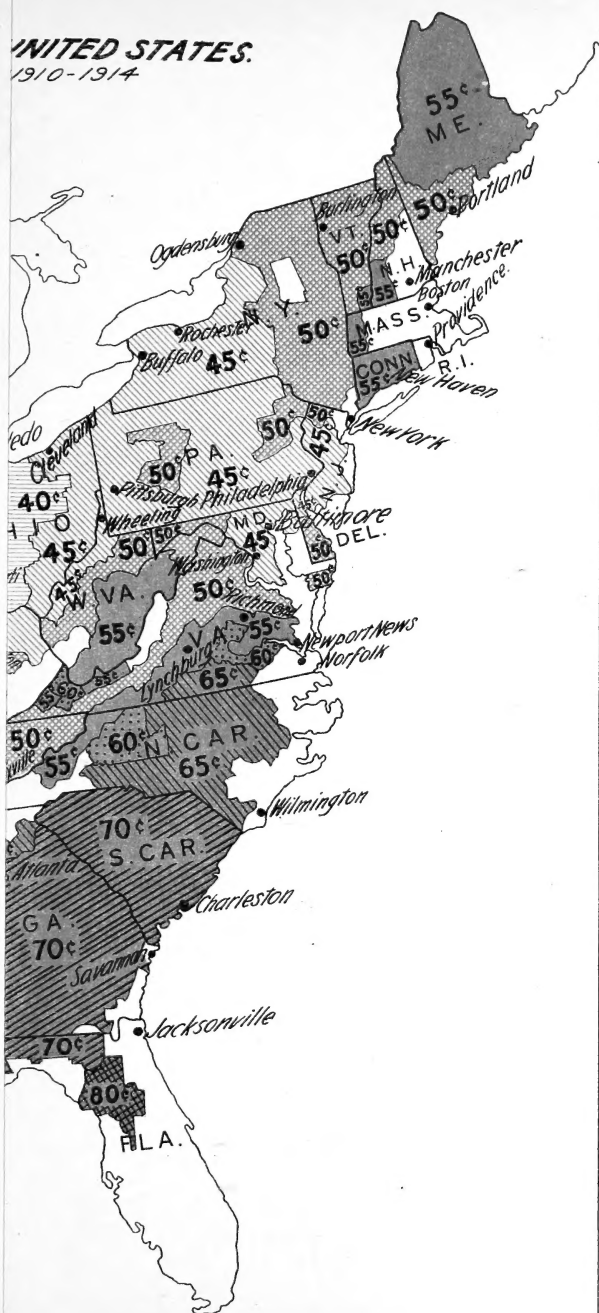
USUAL GEOGRAPHIC VARIATIONS IN PRODUCERS' PRICES WITHIN THE UNITED STATES.
FIGURES REPRESENT A FIVE YEAR AVERAGE BY COUNTIES OF FARM PRICES FOR 1910-1914.

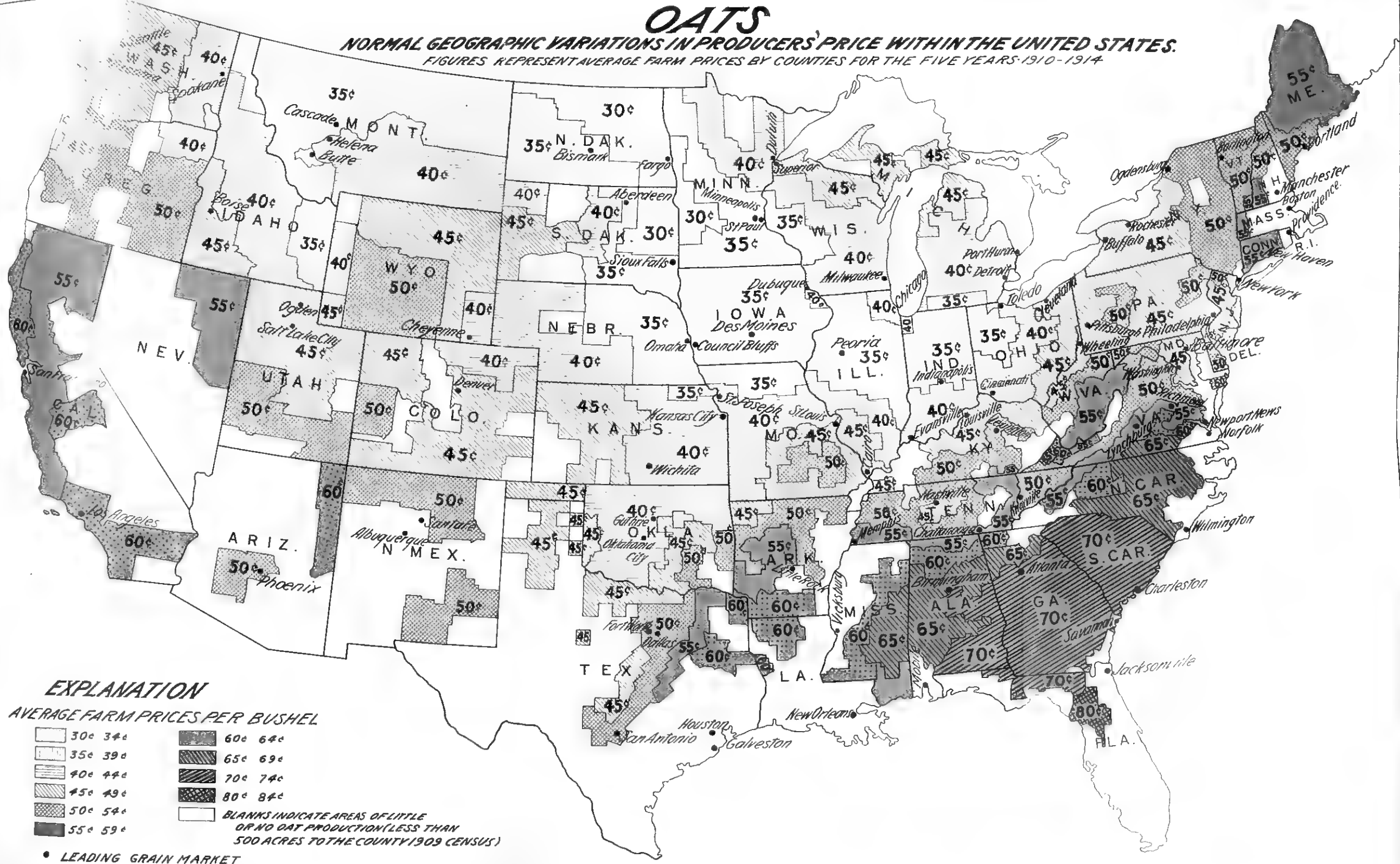




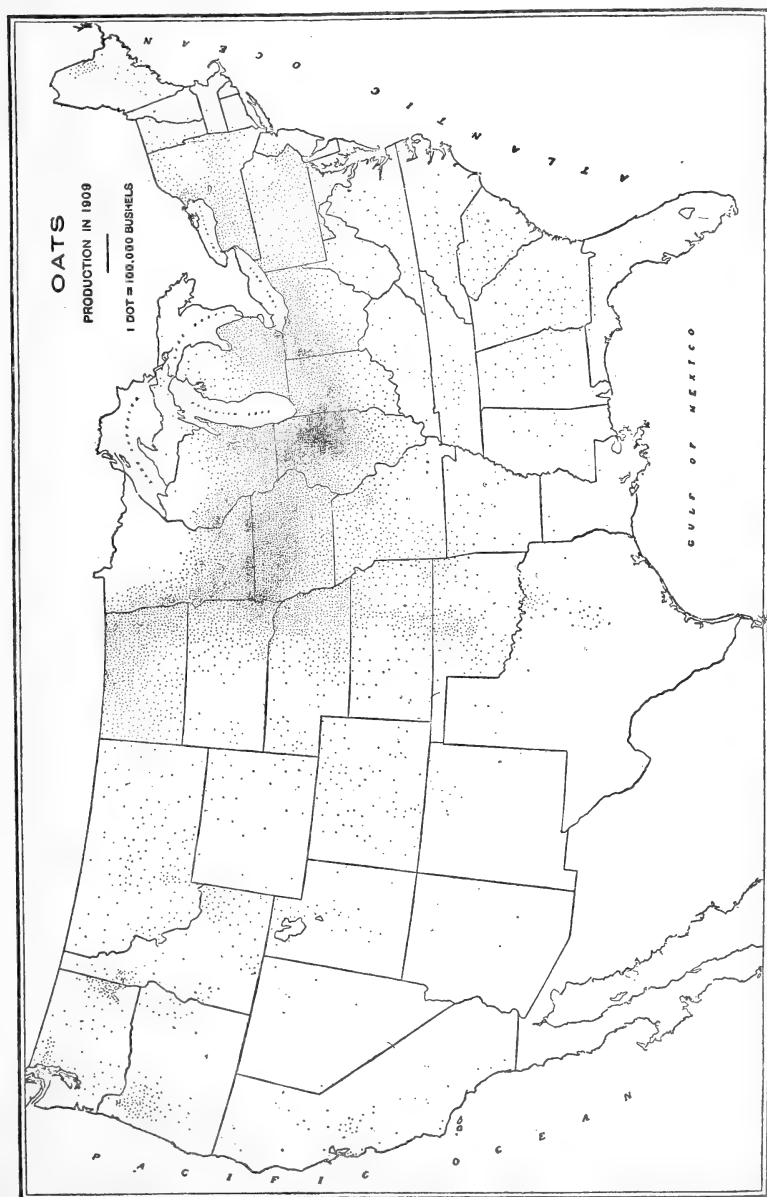
UNITED STATES.

1910-1914





production, the upward movement in the price levels becomes more pronounced. In deficiency regions near the main channels of trade, price increases are small. Highest prices are paid to producers in the southeastern cotton States—areas of insufficient oat production which are farthest removed from the surplus-producing sections.



MAP 3.

Compared to such products as corn or vegetables, gradual elevation in the price levels of oats is a distinguishing characteristic, as well as comparative regularity in the upward slope of prices from the region of minimum price. In the commerce in oats, a weight per bushel nearly half that of wheat or corn lowers the freight charges. Moreover, the rate per 100 pounds is sometimes less than for wheat, consequently oats move at nearly half the expense of other cereals, and the greater the distance the more marked does this difference in costs of transportation become.

The trend of the price levels is evidently closely related to such influences as the location of areas of surplus and deficient production, the local uses of oats, and to the group of factors which enter into the distributive movement.

DISPOSITION OF UNITED STATES OAT CROP.

The price of oats is dominated by the demand for them as a feed-stuff; as such by far the larger part of the crop is consumed on farms, and second in importance is the consumption by live stock in cities. Imports and exports are normally unimportant, and only a small part of the crop is used for human food and for seed.

A few general phases of the uses and distributive movement of oats are shown in Table 1.

TABLE 1.—*Oats: Approximate distribution of the harvest of the United States.*

[Figures are five-year averages for the years 1911 to 1915. Number of bushels rounded to the nearest million.]

Item.	Per cent.	Bushels.
Production.....	100.0	1,229,000,000
Shipped out of counties where grown ¹	29.0	361,000,000
Remaining in counties where grown ¹	71.0	868,000,000
Farm consumption: ²		
Horses and mules.....	46.4	570,000,000
Milk cows.....	5.0	61,000,000
Other cattle.....	1.8	22,000,000
Swine.....	1.8	22,000,000
Sheep.....	1.8	22,000,000
Poultry.....	2.2	27,000,000
Human beings.....	.9	12,000,000
Seed.....	7.6	94,000,000
Other or doubtful.....	4.5	55,000,000
Total.....	72.0	885,000,000
Not used on farms:		
Exports.....	3.9	48,000,000
Consumed in merchant flour mills.....	4.1	50,000,000
Other urban uses, principally consumption by over 3,000,000 horses in cities, also human food (rolled oats and "breakfast foods").....	20.0	246,000,000
Total.....	28.0	344,000,000

¹ In the census year 1909, total sales of oats from farms constituted 32.7 per cent of the crop. As in the same year shipments out of counties where grown amounted to 25.9 per cent, the difference represents approximately the local sales, amounting to 6.8 per cent of the crop.

² U. S. Department of Agriculture. Farmers' Bulletin 629, p. 8. (1914.)

As less than 4 per cent of the national production was exported in 1911-1915, on an average, it is evident that domestic requirements absorbed nearly the entire crop.

Farm consumption absorbs 72 per cent of the crop. According to the 1909 census only a third of the harvest is sold, the remaining two-thirds never leaving the counties in which it is produced. A small part of the third sold is shipped back to farms for consumption.

Urban markets receive about a third of the national production. This third includes the export oats and the small percentage shipped to farms, but most of it is for urban consumption. In urban consumption the chief item is the requirement for horses. Other items are the quantity which enters merchant flour mills, about 50 million bushels, and the uses for human food in the form of rolled oats and breakfast foods. The latter uses take up the higher grades of oats. The census for 1909 reported 50 million bushels consumed in merchant flour mills, of which 36 million bushels were manufactured "chiefly for human food" and 14 million bushels "chiefly for stock feed." In 1909 the quantity entering custom flour mills was reported to be 13 million bushels.

Uses of oats may be grouped under the four headings: (1) Live stock consumption, (2) seed, (3) human consumption, and (4) export. Many million bushels are required for seed, human consumption, and export, but such uses do not absorb normally more than one-fourth of the crop.

Requirements for live stock, according to an estimate made in 1914, took up approximately three-fourths of the production of the United States, of which more than half a billion bushels, or over 60 per cent of the oats used on farms, were fed to horses and mules. Adding to this figure the quantities fed to animals not on farms, the aggregate consumption by horses and mules was possibly at least one-half of the national production.

LOCAL VARIATION IN USES OF OATS.

There is much variation throughout the country in farm practice as to feeding or selling, in the various uses of oats, and in methods of marketing. Used interchangeably with other crops, consumption in any section depends upon price, local production, and the abundance of other feeds.

Where corn is scarce and high in price, as in the Pacific States, a larger use is made of oats and barley for feeding purposes. In many sections of the West and South, oats are cut for hay. A special investigation for the State of Tennessee¹ showed that about 49 per cent of the crop of the State was fed in the straw and 51 per cent was thrashed.

¹ Monthly Crop Report, March, 1916, p. 21.

PRODUCTION, CONSUMPTION, AND MARKETINGS, BY STATES AND SECTIONS.

An idea of the relation of production to consumption, surplus and deficiency in each State and section, and the direction of the trade currents may be gained from Table 2.

It will be noted that three-fourths of the national oat crops of 1911-1915 were produced within the two divisions comprising the North Central States, which contain but 17 per cent of the total land area. This area embraces the regions of lowest farm price. It is the greatest grain and live-stock producing region, and most of the oats raised is consumed locally. However, the fraction of the crop which moves from this section constitutes the bulk of the commercial crop in the United States.

"Shipments out of counties where grown" in Table 2 may be said as a rule to represent the fraction which enters commercial channels, the rest of the crop remaining for local consumption.

In the census report for the year 1909, the sales of oats from farms were reported as 32.7 per cent of production. In the same year shipments out of counties where grown amounted to 25.9 per cent. The difference, 6.8 per cent of the crop, would appear to constitute the local sales.

Nearly 84 per cent of all the oats entering general trade channels originates within the North Central States. Yet this 84 per cent of the total commercial oats constitutes only a third of the production of this region, the remaining two-thirds being consumed on the farms where grown. The oat crop of the Pacific Northwest, with that of adjacent territory, enters normally into a distinct trade westward, the surplus over domestic needs being exported via the Pacific. If from the total commercial oats the figures for the far Western States be deducted, the concentration of production in the North Central States becomes still more pronounced compared with the rest of the country. The surplus from this north central section evidently supplements deficient production in other regions east of the Rocky Mountains and furnishes the bulk of the export oats. All other sections produce less than requirements, although some small areas therein produce surpluses. Details are given in Table 2.

LOCAL PRICE FACTORS.**THE GENERAL PRICE TREND AND LOCAL VARIATIONS.**

Map 2, showing geographic differences in the farm price of oats, is designed to show local variations in the general price zones. It is based upon the same data as Map 1, except that a 5-cent unit has been used to throw into relief local deviations and minor counter-currents to the general drift of the price movement. The basic figures and an explanation as to methods are given in the appendix (pp. 21-28).

TABLE 2.—*Oats: Production and commercial movement.*

[Five-year average, 1911-1915.]

State and geographic division.	Production.			Shipped out of counties where grown.		
	Quantity.	Per cent of United States production.	Per capita.	Quantity.	Per cent of production of State or division.	Per cent of total shipments.
	<i>Thousand bushels.</i> 1,228,765	100.0	<i>Bushels.</i> 12.6	<i>Thousand bushels.</i> 360,560	29	100.0
United States.....						
New England.....	9,789	.8	1.4	149	2	(¹)
Middle Atlantic.....	80,401	6.5	3.9	4,330	6	1.4
South Atlantic.....	32,461	2.6	2.5	1,385	4	.4
East North Central.....	395,331	32.2	20.8	144,601	37	40.1
West North Central.....	527,674	42.9	43.8	157,009	30	43.5
East South Central.....	21,558	1.8	2.5	1,856	9	.5
West South Central.....	60,946	5.0	6.4	15,813	26	4.4
Mountain.....	65,282	5.3	22.2	20,442	31	5.7
Pacific.....	35,323	2.9	7.4	14,375	41	4.0
New England:						
Maine.....	5,452	.4	7.2	112	2	(¹)
New Hampshire.....	441	(¹)	1.0	4	1	(¹)
Vermont.....	3,178	.3	8.8	32	1	(¹)
Massachusetts.....	305	(¹)	.1	1	(¹)	(¹)
Rhode Island.....	58	(¹)	.1	0	0	0
Connecticut.....	355	(¹)	.3	0	0	0
Middle Atlantic:						
New York.....	42,500	3.4	4.4	2,331	5	.6
New Jersey.....	2,024	.2	.7	216	11	.1
Pennsylvania.....	35,877	2.9	4.4	2,383	7	.7
South Atlantic:						
Delaware.....	121	(¹)	.6	12	10	(¹)
Maryland.....	1,309	.1	1.0	167	13	.1
Virginia.....	4,108	.3	1.9	295	7	.1
West Virginia.....	2,774	.2	2.1	60	2	(¹)
North Carolina.....	4,864	.4	2.1	97	2	(¹)
South Carolina.....	7,988	.7	5.1	296	4	.1
Georgia.....	10,429	.8	3.8	439	4	.1
Florida.....	868	.1	1.1	19	2	(¹)
East North Central:						
Ohio.....	64,308	5.2	13.0	21,668	34	6.0
Indiana.....	54,731	4.5	19.8	23,501	43	6.6
Illinois.....	145,962	11.9	24.7	72,156	49	20.0
Michigan.....	50,948	4.1	17.3	12,411	24	3.4
Wisconsin.....	79,382	6.5	32.8	14,565	18	4.1
West North Central:						
Minnesota.....	104,457	8.5	47.9	30,449	29	8.4
Iowa.....	175,081	14.2	78.8	77,507	44	21.5
Missouri.....	27,807	2.3	8.3	5,772	14	1.0
North Dakota.....	73,436	6.0	111.1	13,200	18	3.7
South Dakota.....	44,507	3.6	69.2	13,992	31	3.9
Nebraska.....	57,977	4.7	47.0	12,439	21	3.4
Kansas.....	44,409	3.6	25.2	5,650	13	1.6
East South Central:						
Kentucky.....	3,893	.3	1.7	172	4	(¹)
Tennessee.....	6,967	.6	3.1	1,313	19	.4
Alabama.....	7,455	.6	3.3	212	3	.1
Mississippi.....	3,243	.3	1.7	159	5	(¹)
West South Central:						
Louisiana.....	1,429	.1	.8	166	12	(¹)
Texas.....	29,803	2.5	7.1	10,433	35	2.9
Oklahoma.....	23,653	1.9	12.2	4,953	21	1.4
Arkansas.....	6,061	.5	3.7	261	4	.1
Mountain:						
Montana.....	23,103	1.9	55.1	7,243	31	2.0
Wyoming.....	8,179	.7	50.2	1,846	23	.5
Colorado.....	11,587	.9	13.1	3,040	26	.8
New Mexico.....	1,867	.1	5.0	381	20	.1
Arizona.....	298	(¹)	1.3	37	12	(¹)
Utah.....	4,340	.4	10.7	1,103	25	.3
Nevada.....	499	(¹)	5.3	83	17	(¹)
Idaho.....	15,409	1.3	40.7	6,709	44	1.9
Pacific:						
Washington.....	14,035	1.1	10.4	6,409	46	1.8
Oregon.....	14,040	1.2	18.5	4,570	33	1.3
California.....	7,248	.6	2.7	3,396	47	.9
United States.....	1,228,765	100.0	12.6	360,560	29	100.0
Exports (including oatmeal).....	48,291	3.9				
Imports.....	5,383	.4				

¹ Less than one-tenth of 1 per cent.

Examination of Map 2 will disclose an irregular slope in the price levels in a number of instances. A varying rate of increase in the upward trend is also in evidence. The deviations from the general trend are not so frequent or pronounced as in the case of farm products which have comparatively local markets, or where cost of transportation, incident to greater bulk, represents a larger proportion of market values. This lower cost of shipping oats from one section to another tends to regulate and reduce the price differences between the two sections.

Price levels are more irregular and rise more rapidly southward than to the east or west. A number of factors contribute to this condition. On the north, the Canadian surplus is a factor to be reckoned with; other factors in this section are cheaper water transportation via the Great Lakes, availability of other feeds, and the organization of the grain trade.

ISOLATED AREAS.

The existence or absence of adequate transportation facilities has a strong influence on the price zones. An isolated region has practically a local market, influenced little by outside market conditions. The prices in the mountainous areas are out of line with prices in surrounding territory. Illustrations of this are seen in Appalachian Mountain regions and the Ozark section in Missouri.

LOCAL VARIATIONS IN DEMAND.

The elasticity of domestic demand and supply and the availability of substitutes are indicated by the fact that during the years 1911 to 1916 the annual variation in consumption of oats ranged from 20 million to 600 million bushels.

Much variation exists throughout the country in the relation of production to consumption, in farm practice as to feeding or selling, and in the various uses of oats and methods of marketing. Used interchangeably with other crops, consumption in any section depends upon price, local production, and the abundance of other feeds. Thus in the important oat-producing States west of the Mississippi—which are unfavorably situated as to the trade routes owing to distance and higher costs of transportation—a considerably larger proportion of the crop is retained for farm consumption than in the important surplus-producing States east of the Mississippi. The great variation, section by section, in the farm consumption of oats was indicated in Table 2 in the quantities remaining in the counties where grown.

COSTS OF HAULING TO SHIPPING POINTS.

Prices are influenced also by distance from shipping points, condition of wagon roads, and other things affecting wagon transportation.

Table 3 gives cost of hauling as estimated for 1906. Such costs are frequently higher than the costs of long shipments by rail or water.

TABLE 3.—Average cost of hauling oats from farms to shipping points.¹

[Cost refers to expense for round trips.]

State and geographic division.	Number of counties reported.	Average—					From most remote farms to shipping points—				
		Miles to shipping point.	Days for round trip.	Pounds in one load.	Cost per load.	Cost per 100 pounds.	Miles to shipping point.	Days for round trip.	Pounds in one load.	Cost per load.	Cost per 100 pounds.
North Atlantic:											
New York.....	8	7.8	0.6	2,619	\$2.21	\$0.08	25.0	1.5	3,000	\$6.75	\$0.22
Pennsylvania.....	24	7.1	.7	2,875	2.48	.09	20.0	1.0	2,000	2.50	.12
South Atlantic:											
Virginia.....	8	7.5	.7	2,644	2.28	.09	18.0	2.0	2,200	5.00	.23
West Virginia.....	5	10.0	.8	2,410	3.12	.13	20.0	2.0	1,750	6.00	.34
Georgia.....	8	12.7	1.1	1,575	2.62	.17	30.0	2.5	2,000	5.00	.25
North Central:											
Ohio.....	46	6.2	.6	3,120	1.96	.06	30.0	2.0	2,000	8.00	.40
Indiana.....	46	6.6	.6	3,021	1.75	.06	25.0	1.5	3,000	4.50	.15
Illinois.....	58	5.7	.5	2,847	1.47	.05	24.0	1.5	3,500	6.00	.17
Michigan.....	44	7.8	.6	2,710	1.81	.07	30.0	2.0	3,500	6.00	.17
Wisconsin.....	35	8.8	.7	2,588	2.09	.08	30.0	2.0	2,500	6.00	.24
Minnesota.....	44	8.3	.7	2,916	2.25	.08	30.0	2.0	3,000	7.00	.23
Iowa.....	73	6.1	.6	2,354	1.78	.08	16.0	2.0	3,500	7.00	.20
Missouri.....	42	8.6	.8	2,335	2.03	.09	25.0	2.0	2,000	5.00	.25
North Dakota.....	20	10.7	.7	3,738	3.23	.09	35.0	2.0	2,700	6.00	.22
South Dakota.....	32	12.7	.9	2,880	3.23	.11	50.0	2.5	2,500	15.00	.60
Nebraska.....	51	9.1	.7	2,826	2.14	.08	30.0	1.5	2,500	5.25	.21
Kansas.....	30	7.6	.6	2,835	1.69	.06	25.0	2.0	3,000	7.00	.23
South Central:											
Kentucky.....	18	10.5	1.1	2,256	2.99	.13	30.0	3.0	1,250	9.00	.72
Tennessee.....	24	9.8	.8	1,888	1.86	.10	30.0	3.0	1,600	6.00	.38
Alabama.....	2	15.5	1.4	1,500	3.50	.23	25.0	2.0	1,500	4.00	.27
Texas.....	43	13.8	1.1	2,358	3.02	.13	42.5	3.0	2,500	4.50	.18
Indian Territory.....	2	8.8	.6	1,900	1.65	.09	15.0	.5	2,000	1.38	.07
Oklahoma.....	12	12.9	.9	2,354	2.51	.11	45.0	3.0	2,000	7.50	.38
Western:											
Montana.....	17	13.9	1.3	3,076	5.69	.19	35.0	3.5	2,500	10.50	.42
Wyoming.....	7	22.1	1.9	2,829	7.03	.25	55.0	6.5	4,500	22.75	.51
Colorado.....	27	12.5	1.1	3,307	4.50	.14	70.0	7.0	2,500	35.00	1.40
New Mexico.....	4	18.0	1.7	2,212	5.42	.25	37.5	3.0	2,750	10.50	.38
Arizona.....	2	13.8	1.3	4,250	7.15	.27	27.5	2.5	4,500	18.75	.42
Utah.....	10	21.9	2.2	3,665	6.71	.18	100.0	14.0	7,000	35.00	.50
Nevada.....	1	12.0	1.4	6,000	10.50	.18	17.0	2.0	6,000	15.00	.25
Idaho.....	9	13.6	1.1	3,278	4.86	.15	27.5	1.5	2,500	6.75	.27
Washington.....	14	9.8	1.0	2,654	4.00	.15	60.0	7.0	2,000	28.00	1.40
Oregon.....	15	10.3	.9	3,783	3.24	.09	30.0	2.0	4,000	6.00	.15
California.....	17	9.9	.9	6,229	4.31	.07	32.0	3.0	4,000	12.75	.32
Geographic division:											
North Atlantic.....	32	7.5	.6	2,713	2.18	.08	.....	.....	.....	.....	.....
South Atlantic.....	21	9.4	.8	2,318	2.56	.11	.....	.....	.....	.....	.....
North Central.....	521	6.9	.6	2,766	1.82	.07	.....	.....	.....	.....	.....
South Central.....	101	13.0	1.0	2,289	2.74	.12	.....	.....	.....	.....	.....
Western.....	123	11.5	1.1	3,683	4.55	.12	.....	.....	.....	.....	.....
States represented.....	798	7.3	.6	2,772	1.82	.07	.....	.....	.....	.....	.....

¹ From "Costs of hauling crops from farms to shipping points," by Frank Andrews. Bul. 49, Bureau of Statistics, U. S. Dept. Agr.

URBAN MARKETS.

A large part of the commercial oat crop is first concentrated in a few large primary markets, most of which are located in the region of large production. Each market has a tributary territory, and farm prices in the sections shipping to each market tend to differ in proportion to costs of transportation. As this grain business is on a highly competitive basis, the price levels in surrounding sections (see price levels in North Central States) are comparatively even.

RECEIPTS, SHIPMENTS, AND CONSUMPTION OF CHIEF MARKETS.

In Table 4 are assembled data as to receipts, shipments, and apparent consumption in the most important grain centers. Allowing for duplication in reports of receipts, the degree of concentration in a few primary markets in the North Central States is manifest in comparing the total of receipts with the "shipments out of counties where grown" (Table 2).

While the great markets such as Chicago, St. Louis, and New York consume large quantities of oats, they are also points for concentration and reshipment.

TABLE 4.—*Oats: Receipts and shipments in leading markets.*

[Figures are five-year averages, 1911 to 1915, unless otherwise noted.]

Market.	Receipts.	Shipments.	Excess, receipts over shipments.
EAST OF THE ROCKY MOUNTAINS.			
Primary markets:	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Chicago.....	121,774,000	104,622,000	17,152,000
St. Louis.....	22,117,000	15,409,000	6,708,000
Minneapolis.....	21,513,000	20,218,000	1,295,000
Milwaukee.....	19,620,000	18,125,000	1,495,000
Omaha.....	13,266,000	¹ 13,599,000	.....
Peoria.....	10,391,000	¹ 11,717,000	.....
Kansas City.....	7,719,000	6,203,000	1,516,000
Cleveland.....	7,419,000	1,606,000	5,813,000
Cincinnati.....	7,188,000	5,076,000	2,112,000
Duluth.....	6,592,000	¹ 6,626,000	.....
Indianapolis.....	6,242,000	2,405,000	3,837,000
Louisville.....	6,037,000	4,240,000	1,797,000
Toledo.....	4,561,000	3,770,000	791,000
Detroit.....	3,823,000	743,000	3,080,000
Total ²	258,262,000	214,359,000	45,596,000
Other markets:			
Buffalo.....	12,685,000	(³)	(³)
New York.....	27,071,000	<i>Exports.</i>	19,070,000
Baltimore.....	15,726,000	8,001,000	3,416,000
Philadelphia.....	11,143,000	12,310,000	7,576,000
Boston.....	4,539,000	3,567,000	3,750,000
New Orleans.....	3,089,000	799,000	2,389,000
PACIFIC MARKETS.			
Seattle.....	2,344,000	764,000	1,580,000
San Francisco.....	2,049,000	259,000	1,790,000
Portland, Oreg. ⁴	2,286,000	1,327,000	959,000

¹ In these cases shipments apparently exceed receipts, according to the original reports.² Allowance should be made for some duplication in receipts due to such causes as intermediate markets crediting themselves with through shipments.³ No data.⁴ Data for 1915 only.

PRICE ZONES FLEXIBLE.

In concluding the brief summary of a few of the more general facts concerning regional price differences it appears necessary to direct attention to the changeable character of the price zones. The price differences as charted on Maps 1 and 2 represent the usual conditions as established by averages for the five years 1910 to 1914. These averages, which are based upon average prices for individual counties, indicate price zones which are fairly definite, but whose boundaries and price averages are subject to change. Unusual harvest or market conditions may change the price in one section as compared with another. Especially is this true for comparatively isolated sections, which are somewhat out of line with general trade currents. However, a comparison of the prices of many hundreds of counties during 1910-1914 shows that in individual years the price zones were substantially the same as those based upon the average prices of the five years.

SECTIONAL PRICE RATIOS CHANGING WITH ECONOMIC TRANSFORMATIONS.

The differences in price between one region and another, as indicated by the five-year averages in Table 5, reflect economic conditions that are changing; and the character of these changes in economic conditions since 1871-1875 are to a considerable extent indicated by the varying difference in price in one section as compared with another.

Transportation costs have declined greatly; other distributive expenses have dropped also; areas which formerly produced sufficient quantities for local needs must now bring in supplies. Sectional price differences have narrowed notably. The farmers' price of oats has become lower in areas of insufficient production, coincident with cheaper transportation from regions of surplus; on the other hand, prices have increased in areas of surplus production.

RETROSPECTIVE VIEW, 1871 TO 1915.

CHANGES IN REGIONAL PRICE DIFFERENCES.

In Table 5 the regional differences in the price of oats during the period 1871 to 1915 can be observed. The center of oat production has shifted to the west and north. The minimum farm price of oats has followed in the same direction. In the period 1871-1875 the lowest farm price appeared in Iowa, in 1882-1886 in Nebraska, and in 1911-1915 in North Dakota. The farm price in Massachusetts was 34 cents higher than in Iowa in 1871-1875, but only 18 cents higher in 1911-1915. In the surplus-producing North Central States, west of the Mississippi River, prices have increased, absolutely as well as relatively, but in the areas of insufficient production in the Southern and Mountain States prices have declined. Tendencies can best be followed through the percentage based upon the average for the United States at each period taken as 100 per cent. Details follow in Table 5.

TABLE 5.—*Farm prices of oats, 1871 to 1915.*

[A review, by States and sections, of the trend of geographic price differences.]

State and geographic division.	Farm prices per bushel, in 5-year averages.					Measurement of changes in percentages of the United States average as base (100 per cent)				
	1911-1915.	1901-1905.	1891-1895.	1882-1886. ¹	1871-1875. ²	1911-1915.	1901-1905.	1891-1895.	1882-1886. ¹	1871-1875.
United States.....	Cents. 39	Cents. 33	Cents. 29	Cents. 31	Cents. 36	P. ct. 100	P. ct. 100	P. ct. 100	P. ct. 100	P. ct. 100
New England.....	53	46	43	46	54	136	139	148	148	150
Middle Atlantic.....	47	40	36	38	44	121	121	124	123	122
South Atlantic.....	59	48	44	48	58	151	145	152	155	161
East North Central.....	39	33	28	30	32	100	100	97	97	89
West North Central.....	36	29	25	25	27	92	88	86	81	75
East South Central.....	57	47	42	47	61	146	142	145	152	169
West South Central.....	50	44	41	50	78	128	133	141	161	217
Mountain.....	47	52	40	53	.....	121	158	138	171	.....
Pacific.....	46	45	37	45	64	118	136	128	145	177
New England:										
Maine.....	52	46	43	45	53	133	139	148	145	147
New Hampshire.....	55	47	43	46	54	141	142	148	148	150
Vermont.....	53	44	42	42	46	136	133	145	135	128
Massachusetts.....	53	47	43	48	57	136	142	148	155	158
Rhode Island.....	52	46	45	48	54	133	139	155	155	150
Connecticut.....	54	45	41	45	57	138	136	141	145	158
Middle Atlantic:										
New York.....	47	40	35	38	43	121	121	121	123	119
New Jersey.....	49	41	37	39	46	126	124	128	126	128
Pennsylvania.....	46	38	35	38	42	118	115	121	123	117
South Atlantic:										
Delaware.....	49	42	36	39	40	126	127	124	126	111
Maryland.....	49	38	35	37	41	126	115	121	119	114
Virginia.....	54	42	36	42	44	138	127	124	135	122
West Virginia.....	52	43	38	38	39	133	130	131	123	108
North Carolina.....	63	51	44	48	58	162	155	152	155	161
South Carolina.....	69	59	54	56	77	177	179	186	181	214
Georgia.....	68	58	52	56	74	174	176	179	181	206
Florida.....	71	54	60	69	90	182	164	207	223	250
East North Central:										
Ohio.....	40	34	30	33	33	103	103	103	106	92
Indiana.....	38	31	29	29	30	97	94	100	94	83
Illinois.....	38	32	26	26	27	97	97	90	84	75
Michigan.....	40	35	31	33	36	103	106	107	106	100
Wisconsin.....	39	32	26	28	32	100	97	90	90	89
West North Central:										
Minnesota.....	34	28	25	26	30	87	85	86	84	83
Iowa.....	35	28	23	24	23	90	85	79	77	64
Missouri.....	41	33	26	27	28	105	100	90	87	78
North Dakota.....	31	28	25	28	.....	79	85	86	90	.....
South Dakota.....	34	28	25	28	.....	87	85	86	90	.....
Nebraska.....	36	28	24	20	25	92	85	83	65	69
Kansas.....	41	33	26	24	27	105	100	90	77	75
East South Central:										
Kentucky.....	49	39	34	35	41	126	118	117	113	114
Tennessee.....	51	41	34	37	41	131	124	117	119	114
Alabama.....	66	56	51	58	76	169	170	176	187	211
Mississippi.....	63	53	48	58	86	162	161	166	187	239
West South Central:										
Louisiana.....	58	49	46	56	98	149	148	159	181	272
Texas.....	48	47	38	47	76	123	142	131	152	211
Oklahoma.....	41	37	.....	.....	.....	105	112	.....	.....	.....
Arkansas.....	52	45	39	47	61	133	136	134	152	169
Mountain:										
Montana.....	36	39	40	53	.....	92	118	138	171	.....
Wyoming.....	44	46	.....	50	.....	113	139	.....	161	.....
Colorado.....	43	46	37	51	.....	110	139	128	165	.....
New Mexico.....	51	61	51	56	.....	131	185	176	181	.....
Arizona.....	63	67	.....	.....	.....	162	203	.....	.....	.....
Utah.....	45	48	36	46	.....	115	145	124	148	.....
Nevada.....	58	65	.....	58	95	149	197	.....	187	264
Idaho.....	36	46	38	54	.....	92	139	131	174	.....
Pacific:										
Washington.....	41	41	34	43	.....	105	124	117	139	.....
Oregon.....	41	42	34	43	53	105	127	117	139	147
California.....	55	51	44	49	74	141	155	152	158	206

¹ 1882-1886 taken instead of 1881-1885 because of availability of statistics for a larger number of states beginning 1882.² Values reduced to gold basis.

TREND OF YIELDS TO THE ACRE.

Yields in bushels to the acre must be taken into consideration as a qualifier of price advantage or disadvantage. The trend of yields, by States and geographic divisions, is shown in Table 6.

Increases in yield are general. It is only in the West North Central States, the western part of the great surplus-producing section, that diminishing yields appear. In this section large areas have been added to the cultivated land between 1875 and 1915, and the average yields of 1915 include areas not included in 1875. The most pronounced increases in yields per acre are seen in the Mountain and Southern States, offsetting declining price advantages in those sections.

TREND OF VALUES TO THE ACRE.

Prices and average yields have been correlated in Table 7 to show average values to the acre. For the period under review, values have increased in nearly all States and sections, but in varying ratios. The most pronounced improvement in this respect is seen in the Southern States. The average for the United States shows an increase, but declines are shown in the States of the industrial East and the far West.

SECTIONAL CHANGES IN PRODUCTION OF OATS.

The changes in the location of the chief oat-producing sections from 1871 to 1915 and the relation of production to population and other factors are indicated in Table 8.

During the period under review, production has increased fivefold. It has been concentrated to an increasing degree in the North Central States, which in 1871-1875 grew 60 per cent of the national crop of oats, and in 1911-1915, 75 per cent. The most marked relative increases during the last decade are shown in the Mountain and Southern States, but in relation to the United States total these sections are still comparatively unimportant. The three States constituting the Middle Atlantic section produced nearly one-fourth the total in 1871-1875, and in 1911-1915 their proportion dropped to about one-fifteenth.

PRICE VS. COST OF PRODUCTION.

Difference in costs of production is an independent factor which modifies sectional differences in producers' prices of oats. Costs are qualified by varying productivity as expressed by yields in bushels to the acre. High yields to the acre may reduce high acre-costs to low bushel-costs, and conversely. In the Southern States, for instance, the favorable combination of highest price and lowest costs to the acre is offset by relatively low yields to the acre; hence these States show the highest costs per bushel of oats and the minimum net returns.

TABLE 6.—Oats: *Trend of yields per acre, 1871-1915.*

[Limitations of soil and climate, reflected in yields per acre, as qualifying price factors.]

State and geographic division.	Yields per acre, in five-year averages.					Comparisons in percentages of the United States average as base.				
	1911-1915	1901-1905	1891-1895	1882-1886 ¹	1871-1875	1911-1915	1901-1905	1891-1895	1882-1886	1871-1875
	<i>Bush-els.</i>	<i>Bush-els.</i>	<i>Bush-els.</i>	<i>Bush-els.</i>	<i>Bush-els.</i>	<i>Per cent.</i>	<i>Per cent.</i>	<i>Per cent.</i>	<i>Per cent.</i>	<i>Per cent.</i>
United States.....	32	31	26	27	28	100	100	100	100	100
New England.....	35	34	33	31	32	109	110	127	115	114
Middle Atlantic.....	31	30	28	28	29	97	97	108	104	104
East North Central.....	34	34	29	32	30	106	110	112	119	107
West North Central.....	29	31	26	32	32	91	100	100	119	114
South Atlantic.....	23	18	16	13	15	72	58	62	48	54
East South Central.....	21	18	16	14	17	66	58	62	52	61
West South Central.....	24	23	20	18	22	75	74	78	67	79
Mountain.....	42	35	31	31	-----	131	113	119	115	-----
Pacific.....	41	36	31	30	33	128	116	119	111	118
New England:										
Maine.....	39	38	35	29	26	122	123	135	107	93
New Hampshire.....	37	32	34	34	36	116	103	131	126	129
Vermont.....	40	38	37	35	36	125	123	142	130	129
Massachusetts.....	35	32	34	31	33	109	103	131	115	118
Rhode Island.....	29	30	30	28	32	91	97	115	104	114
Connecticut.....	31	32	28	29	32	97	103	108	107	114
Middle Atlantic:										
New York.....	33	33	27	30	34	103	106	104	111	121
New Jersey.....	29	28	29	27	25	91	90	112	100	89
Pennsylvania.....	32	30	27	28	29	100	97	104	104	104
East North Central:										
Ohio.....	36	36	30	32	28	112	116	115	119	100
Indiana.....	32	31	27	29	25	100	100	104	107	89
Illinois.....	34	32	30	35	30	106	103	115	130	107
Michigan.....	34	34	27	33	31	106	110	104	122	111
Wisconsin.....	35	35	32	31	35	109	113	123	115	125
West North Central:										
Minnesota.....	35	36	32	35	34	109	116	123	130	121
Iowa.....	35	30	32	34	36	109	97	123	126	129
Missouri.....	23	23	24	26	29	72	74	92	96	104
North Dakota.....	32	35	28	34	-----	100	113	108	126	-----
South Dakota.....	27	36	23	-----	-----	84	116	88	-----	-----
Nebraska.....	26	29	22	32	31	81	94	85	119	111
Kansas.....	25	25	23	32	31	78	81	88	119	111
South Atlantic:										
Delaware.....	30	25	21	23	19	94	81	81	85	68
Maryland.....	29	25	21	20	17	91	81	81	74	61
Virginia.....	21	17	14	11	14	66	55	54	41	50
West Virginia.....	25	24	22	18	23	78	77	85	67	82
North Carolina.....	19	14	12	9	13	59	45	46	33	46
South Carolina.....	21	15	12	10	11	66	48	46	37	39
Georgia.....	21	14	13	9	12	66	45	50	33	43
Florida.....	17	13	11	10	12	53	42	42	37	43
East South Central:										
Kentucky.....	22	22	21	19	22	69	71	81	70	79
Tennessee.....	22	19	17	13	17	69	61	65	48	61
Alabama.....	20	15	13	11	13	62	48	50	41	46
Mississippi.....	20	17	13	10	15	62	53	50	37	54
West South Central:										
Arkansas.....	23	19	19	17	23	72	61	73	63	82
Louisiana.....	22	16	15	13	16	69	52	58	48	57
Oklahoma.....	21	30	-----	-----	-----	66	97	-----	-----	-----
Texas.....	31	28	26	24	28	97	90	100	89	100
Mountain:										
Montana.....	46	42	34	36	-----	144	135	131	133	-----
Idaho.....	46	40	33	33	-----	144	129	127	122	-----
Wyoming.....	38	35	31	30	-----	119	113	119	111	-----
Colorado.....	38	33	27	33	-----	119	106	104	122	-----
New Mexico.....	36	24	29	22	-----	112	77	112	81	-----
Arizona.....	42	33	-----	-----	-----	131	106	-----	-----	-----
Utah.....	45	36	30	30	-----	141	116	115	111	-----
Nevada.....	45	36	-----	32	34	141	116	-----	119	121
Pacific:										
Washington.....	49	47	37	38	-----	153	152	142	141	-----
Oregon.....	39	28	28	27	33	122	90	108	100	118
California.....	35	32	29	26	33	109	103	112	96	118

¹See note 1, Table 5.

TABLE 7.—*Oats: Gross returns per acre.*

[A review of the trend of returns per acre of oats, 1871-1915, and measurement of tendencies in absolute and relative figures.]

State and geographic division.	Gross returns per acre in five-year averages.					Comparisons in percentages of the United States average as base (100).				
	1911-1915	1901-1905	1891-1895	1882-1886 ¹	1871-1875	1911-1915	1901-1905	1891-1895	1882-1886	1871-1875
United States	Dolls. 12.48	Dolls. 10.23	Dolls. 7.54	Dolls. 8.37	Dolls. 10.08	P. ct. 100	P. ct. 100	P. ct. 100	P. ct. 100	P. ct. 100
New England.....	18.55	15.64	14.19	14.26	17.28	149	153	188	170	171
Middle Atlantic.....	14.57	12.00	10.08	10.64	12.76	117	117	134	127	127
East North Central.....	13.36	11.22	8.12	9.60	9.60	107	110	108	115	95
West North Central.....	10.44	8.99	6.50	8.00	8.64	84	88	86	96	86
South Atlantic.....	13.57	8.64	7.04	6.24	8.70	109	84	93	75	86
East South Central.....	11.97	8.46	6.72	6.58	10.37	96	83	89	79	103
West South Central.....	12.00	10.12	8.20	9.00	17.16	96	99	109	108	170
Mountain.....	19.74	18.20	12.40	16.43	.....	158	178	164	196	.....
Pacific.....	18.86	16.20	11.47	13.50	21.12	151	158	152	161	210
New England:										
Maine.....	20.28	17.48	15.05	13.05	13.78	162	171	200	156	137
New Hampshire.....	20.35	15.04	14.62	15.64	19.44	163	147	194	187	193
Vermont.....	21.20	16.72	15.54	14.70	16.56	170	163	206	176	164
Massachusetts.....	18.55	15.04	14.62	14.88	18.81	149	147	194	178	187
Rhode Island.....	15.08	13.80	13.50	13.44	17.28	121	135	179	161	171
Connecticut.....	16.74	14.40	11.48	13.05	18.24	134	141	152	156	181
Middle Atlantic:										
New York.....	15.51	13.20	9.45	11.40	14.62	124	129	125	136	145
New Jersey.....	14.21	11.48	10.73	10.53	11.50	114	112	142	126	114
Pennsylvania.....	14.72	11.40	9.45	10.64	12.18	118	111	125	127	121
East North Central:										
Ohio.....	14.40	12.24	9.00	10.56	9.24	115	120	119	126	92
Indiana.....	12.16	9.61	7.83	8.41	7.50	97	94	104	100	74
Illinois.....	12.92	10.24	7.80	9.10	8.10	104	100	103	109	80
Michigan.....	13.60	11.90	8.37	10.89	11.16	109	116	111	130	111
Wisconsin.....	13.65	11.20	8.32	8.68	11.20	109	109	110	104	111
West North Central:										
Minnesota.....	11.90	10.08	8.00	9.10	10.20	95	99	106	109	101
Iowa.....	12.25	8.40	7.36	8.16	8.28	98	82	98	97	82
Missouri.....	9.43	7.59	6.24	7.02	8.12	76	74	83	84	81
North Dakota.....	9.92	9.80	7.00	9.52	.....	79	96	93	114	.....
South Dakota.....	9.18	10.08	5.75	.....	.....	74	99	76	.....	.....
Nebraska.....	9.36	8.12	5.28	6.40	7.75	75	79	70	76	77
Kansas.....	10.25	8.25	5.98	7.68	8.37	82	81	79	92	83
South Atlantic:										
Delaware.....	14.70	10.50	7.56	8.97	7.60	118	103	100	107	75
Maryland.....	14.21	9.50	7.35	7.40	6.97	114	93	97	88	69
Virginia.....	11.34	7.14	5.04	4.62	6.16	91	70	67	55	61
West Virginia.....	13.00	10.32	8.36	6.84	8.97	104	101	111	82	89
North Carolina.....	11.97	7.14	5.28	4.32	7.54	96	70	70	52	75
South Carolina.....	14.49	8.85	6.48	5.60	8.47	116	87	86	67	84
Georgia.....	14.28	8.12	6.76	5.04	8.88	114	79	90	60	88
Florida.....	12.07	7.02	6.60	6.90	10.80	97	69	88	82	107
East South Central:										
Kentucky.....	10.78	8.58	7.14	6.65	9.02	86	84	95	79	89
Tennessee.....	11.22	7.79	5.78	4.81	6.97	90	76	77	57	69
Alabama.....	13.20	8.40	6.63	6.38	9.88	106	82	88	76	98
Mississippi.....	12.60	9.01	6.24	5.80	12.90	101	88	83	69	128
West South Central:										
Arkansas.....	11.96	8.55	7.41	7.99	14.03	96	84	97	95	139
Louisiana.....	12.76	7.84	6.90	7.28	15.68	102	77	92	87	156
Oklahoma.....	8.61	11.10	.....	.....	.....	69	109	.....	.....	.....
Texas.....	14.88	13.16	9.88	11.28	21.28	119	129	131	135	211
Mountain:										
Montana.....	16.56	16.38	13.60	19.08	.....	133	160	180	228	.....
Idaho.....	16.56	18.40	12.54	17.82	.....	133	180	166	213	.....
Wyoming.....	16.72	16.10	.....	15.00	.....	134	157	.....	179	.....
Colorado.....	16.34	15.18	9.99	16.83	.....	131	148	132	201	.....
New Mexico.....	18.36	14.64	14.79	12.32	.....	147	143	196	147	.....
Arizona.....	26.46	22.11	.....	.....	.....	212	216	.....	.....	.....
Utah.....	20.25	17.28	10.80	13.80	.....	162	169	143	165	.....
Nevada.....	26.10	23.40	18.56	32.30	.....	209	229	.....	222	320
Pacific:										
Washington.....	20.09	19.27	12.58	16.34	.....	161	188	167	195	.....
Oregon.....	15.99	11.76	9.52	11.61	17.49	128	115	126	139	174
California.....	19.25	16.32	12.76	12.74	24.42	154	160	169	152	242

¹ See note 1, table 5.

East North Central:														
Ohio.....	64,308	40,021	28,534	28,140	23,327	161	13.0	9.2	7.5	8.3	8.3	5.2	4.6	4.0
Indiana.....	54,731	121,926	90,551	102,338	44,762	132	19.8	16.1	12.6	11.7	7.4	4.5	4.8	4.1
Illinois.....	145,962	122,990	90,551	102,338	44,762	132	24.7	24.3	22.0	30.3	16.6	11.9	14.1	12.8
Michigan.....	50,948	25,792	19,720	9,539	32.8	153	17.3	13.1	11.8	10.8	7.2	4.1	3.8	3.7
Wisconsin.....	79,382	85,338	53,498	41,640	18,420	93	32.8	39.7	29.6	28.4	16.3	6.5	9.8	7.2
West North Central:														
Minnesota.....	104,457	76,530	53,201	35,155	10,915	136	47.9	41.4	38.9	35.4	20.1	8.5	8.8	7.5
Iowa.....	175,081	116,923	114,678	70,569	21,730	150	78.8	52.4	57.1	40.6	16.4	14.2	13.4	16.3
Missouri.....	27,807	18,273	27,337	30,022	16,080	152	8.3	5.8	9.7	12.6	8.6	2.3	2.1	3.9
North Dakota.....	73,436	30,493	16,618	11,659	.....	241	111.1	77.0	63.8	39.4	.....	6.0	3.5	2.1
South Dakota.....	44,507	25,370	16,494	.....	.....	175	69.2	55.6	45.3	.....	.....	3.6	2.9	2.3
Nebraska.....	57,977	35,399	35,076	19,757	2,322	105	47.0	50.2	33.0	28.4	10.5	4.7	6.4	5.0
Kansas.....	41,409	23,015	33,241	24,084	7,375	193	25.2	15.0	23.1	20.6	13.3	3.6	2.6	4.7
East South Central:														
Kentucky.....	3,893	5,350	11,127	8,479	6,101	73	1.7	2.4	5.7	4.9	4.3	3.3	6	1.6
Tennessee.....	6,967	3,238	7,988	4,694	4,720	215	3.1	1.6	4.3	4.9	3.5	6	4	1.1
Alabama.....	7,455	3,002	4,873	4,694	.....	248	3.3	1.6	3.0	3.4	7	6	3	7
Mississippi.....	3,243	1,785	2,293	3,320	571	182	1.7	1.1	1.7	2.8	6	3	2	3
West South Central:														
Louisiana.....	1,429	498	593	438	35	287	8	3	5	4	(4)	1	1	1
Texas.....	29,803	24,869	16,101	11,117	1,041	120	7.1	7.5	6.5	6.0	1.0	2.5	2.9	2.3
Oklahoma.....	23,653	6,14,379	.....	.....	.....	164	12.2	13.7	.....	.....	.....	1.9	1.6	1.9
Arkansas.....	6,061	4,222	6,048	3,992	732	144	3.7	3.0	5.1	4.3	1.3	3.5	3.8	4.6
Mountain:														
Montana.....	23,103	6,817	2,594	1,562	.....	339	55.1	24.1	15.0	19.3	.....	1.9	8	4
Wyoming.....	8,179	1,374	1,482	71	.....	593	50.2	12.6	6.8	1.9	.....	7	2	1
Colorado.....	11,587	4,497	2,772	1,359	(6)	238	13.1	7.3	6.1	4.8	(6)	9	5	4
New Mexico.....	1,987	344	330	289	.....	543	5.0	1.5	1.9	2.1	.....	(3)	(3)	(3)
Arizona.....	1,298	48	.....	.....	.....	521	1.3	1.3	.....	.....	.....	(3)	(3)	(3)
Utah.....	4,340	1,638	923	684	.....	265	10.7	5.4	4.0	4.0	.....	4	2	1
Nevada.....	4,499	298	.....	241	.....	229	5.3	4.0	.....	4.3	.....	(3)	(3)	(3)
Idaho.....	15,409	3,521	989	1,004	(6)	438	40.7	16.7	9.0	18.3	.....	1.3	4	1
Pacific:														
Washington.....	14,035	7,476	4,048	2,689	(6)	188	10.4	10.6	10.0	14.3	.....	1.1	9	6
Oregon.....	14,040	8,017	6,829	5,003	2,164	175	18.5	16.3	19.6	21.6	18.7	1.2	9	8
California.....	7,248	5,243	1,931	1,989	2,081	138	2.7	3.0	1.5	2.0	3.2	6	3	3
The Territories.....	.....	.....	.....	1,470	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic exports, including oatmeal:														
Quantity.....	48,291	16,090	7,289	3,725	752	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per cent of production.....	3.93	1.85	1.03	.64	.27	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Four-year average.
² From the decennial census returns.

³ Less than one-tenth of 1 per cent.
⁴ Less than one-tenth bushel.

⁵ Includes Indian Territory.
⁶ Included in "The Territories."

TABLE 9.—Oats: Geographic differences in prices and costs of production.¹

State and geographic division.	Price and cost of production, per bushel.		Average yield per acre, 1911-1915.	Gross returns and costs of production, per acre.				Ratio of returns per acre to cost.		Measurement of relationships in percentages of the United States average as base (100 per cent.).					
	Cost of production, 1909. ²			Average returns per acre of grain produced, 1911-1915. (Price X yield.)	Cost of production, 1909. ¹			Ratio of returns per acre to cost. (Cost = 100 per cent.) ³	Cost per bushel.		Yields per acre.		Gross returns per acre.		Cost of production per acre.
	Exclud- ing land rental or in- terest.	Includ- ing land rental or in- terest.	Value of by- prod- ucts, 1909. ¹		Exclud- ing land rental or in- terest.	Includ- ing land rental or in- terest.	Com- mercial fertilizer in cases per acre.		Price per bushel.	Exclud- ing land rental or in- terest.	Includ- ing land rental or in- terest.	Yields per acre.	Gross returns per acre.	Exclud- ing land rental or in- terest.	
	Cents.	Cents.	Cents.	Doll.	Doll.	Doll.	Doll.	Doll.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.	P. ct.
United States.....	39	22	34	32	12.48	1.42	7.13	10.91	0.40	175	100	100	100	100	100
New England.....	53	44	54	35	18.70	5.85	15.54	18.83	2.07	120	136	154	173	218	173
Middle Atlantic.....	47	36	47	31	14.81	4.20	11.09	14.49	1.74	134	121	119	133	156	133
South Atlantic.....	59	38	56	23	13.26	1.90	8.85	12.89	1.84	150	151	106	118	124	118
East North Central.....	39	21	34	34	13.35	1.70	7.26	11.55	.42	184	100	107	102	102	106
West North Central.....	36	21	32	29	10.33	.77	6.13	9.34	.08	169	92	83	86	86	86
East South Central.....	57	35	48	21	11.95	.66	7.38	10.17	.92	162	146	96	93	104	93
West South Central.....	50	29	40	24	12.05	.72	6.90	9.69	.32	175	128	97	89	97	89
Mountain.....	47	24	33	42	19.67	1.10	9.90	13.95	.14	199	121	158	139	138	128
Pacific.....	46	21	30	41	18.44	1.05	8.60	12.48	.12	214	118	95	148	121	114
New England:															
Maine.....	52	44	53	39	20.28	4.54	17.20	20.64	3.83	118	133	162	189	241	189
New Hampshire.....	55	42	47	37	20.35	5.25	15.49	17.30	1.12	131	141	163	217	217	159
Vermont.....	50	40	47	40	21.20	6.48	15.99	18.99	2.07	133	136	182	224	224	174
Massachusetts.....	53	46	56	35	18.55	6.00	15.96	19.66	2.00	116	136	209	224	224	180
Rhode Island.....	52	42	57	29	15.08	7.00	13.05	17.55	1.31	133	133	121	161	161	161
Connecticut.....	54	42	57	31	16.74	7.00	13.05	17.55	1.31	128	138	191	183	183	161
Middle Atlantic:															
New York.....	47	37	47	33	15.51	4.71	12.37	15.59	1.99	125	120	168	173	173	143
New Jersey.....	49	36	48	29	14.21	4.56	10.35	13.93	1.56	137	126	164	145	145	128
Pennsylvania.....	46	33	43	32	14.72	3.34	10.55	13.89	1.67	140	118	130	148	148	127
South Atlantic:															
Delaware.....	49	31	43	30	14.70	3.30	9.42	12.82	2.00	156	126	141	132	132	118
Maryland.....	49	32	78	29	14.21	3.12	9.36	22.57	1.92	132	126	229	131	131	207
Virginia.....	54	39	51	21	11.34	1.51	8.14	10.69	1.62	139	138	177	114	114	98
West Virginia.....	52	37	48	25	13.00	1.38	9.15	11.99	1.10	142	133	168	104	104	128
North Carolina.....	63	41	55	19	11.97	.99	7.73	10.37	1.39	155	162	186	96	96	95
South Carolina.....	69	47	62	21	14.49	1.35	9.79	12.97	2.80	148	177	214	116	137	119

State	1905	1904	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603	1602	1601	1600	1599	1598	1597	1596	1595	1594	1593	1592	1591	1590	1589	1588	1587	1586	1585	1584	1583	1582	1581	1580	1579	1578	1577	1576	1575	1574	1573	1572	1571	1570	1569	1568	1567	1566	1565	1564	1563	1562	1561	1560	1559	1558	1557	1556	1555	1554	1553	1552	1551	1550	1549	1548	1547	1546	1545	1544	1543	1542	1541	1540	1539	1538	1537	1536	1535	1534	1533	1532	1531	1530	1529	1528	1527	1526	1525	1524	1523	1522	1521	1520	1519	1518	1517	1516	1515	1514	1513	1512	1511	1510	1509	1508	1507	1506	1505	1504	1503	1502	1501	1500	1499	1498	1497	1496	1495	1494	1493	1492	1491	1490	1489	1488	1487	1486	1485	1484	1483	1482	1481	1480	1479	1478	1477	1476	1475	1474	1473	1472	1471	1470	1469	1468	1467	1466	1465	1464	1463	1462	1461	1460	1459	1458	1457	1456	1455	1454	1453	1452	1451	1450	1449	1448	1447	1446	1445	1444	1443	1442	1441	1440	1439	1438	1437	1436	1435	1434	1433	1432	1431	1430	1429	1428	1427	1426	1425	1424	1423	1422	1421	1420	1419	1418	1417	1416	1415	1414	1413	1412	1411	1410	1409	1408	1407	1406	1405	1404	1403	1402	1401	1400	1399	1398	1397	1396	1395	1394	1393	1392	1391	1390	1389	1388	1387	1386	1385	1384	1383	1382	1381	1380	1379	1378	1377	1376	1375	1374	1373	1372	1371	1370	1369	1368	1367	1366	1365	1364	1363	1362	1361	1360	1359	1358	1357	1356	1355	1354	1353	1352	1351	1350	1349	1348	1347	1346	1345	1344	1343	1342	1341	1340	1339	1338	1337	1336	1335	1334	1333	1332	1331	1330	1329	1328	1327	1326	1325	1324	1323	1322	1321	1320	1319	1318	1317	1316	1315	1314	1313	1312	1311	1310	1309	1308	1307	1306	1305	1304	1303	1302	1301	1300	1299	1298	1297	1296	1295	1294	1293	1292	1291	1290	1289	1288	1287	1286	1285	1284	1283	1282	1281	1280	1279	1278	1277	1276	1275	1274	1273	1272	1271	1270	1269	1268	1267	1266	1265	1264	1263	1262	1261	1260	1259	1258	1257	1256	1255	1254	1253	1252	1251	1250	1249	1248	1247	1246	1245	1244	1243	1242	1241	1240	1239	1238	1237	1236	1235	1234	1233	1232	1231	1230	1229	1228	1227	1226	1225	1224	1223	1222	1221	1220	1219	1218	1217	1216	1215	1214	1213	1212	1211	1210	1209	1208	1207	1206	1205	1204	1203	1202	1201	1200	1199	1198	1197	1196	1195	1194	1193	1192	1191	1190	1189	1188	1187	1186	1185	1184	1183	1182	1181	1180	1179	1178	1177	1176	1175	1174	1173	1172	1171	1170	1169	1168	1167	1166	1165	1164	1163	1162	1161	1160	1159	1158	1157	1156	1155	1154	1153	1152	1151	1150	1149	1148	1147	1146	1145	1144	1143	1142	1141	1140	1139	1138	1137	1136	1135	1134	1133	1132	1131	1130	1129	1128	1127	1126	1125	1124	1123	1122	1121	1120	1119	1118	1117	1116	1115	1114	1113	1112	1111	1110	1109	1108	1107	1106	1105	1104	1103	1102	1101	1100	1099	1098	1097	1096	1095	1094	1093	1092	1091	1090	1089	1088	1087	1086	1085	1084	1083	1082	1081	1080	1079	1078	1077	1076	1075	1074	1073	1072	1071	1070	1069	1068	1067	1066	1065	1064	1063	1062	1061	1060	1059	1058	1057	1056	1055	1054	1053	1052	1051	1050	1049	1048	1047	1046	1045	1044	1043	1042	1041	1040	1039	1038	1037	1036	1035	1034	1033	1032	1031	1030	1029	1028	1027	1026	1025	1024	1023	1022	1021	1020	1019	1018	1017	1016	1015	1014	1013	1012	1011	1010	1009	1008	1007	1006	1005	1004	1003	1002	1001	1000	999	998	997	996	995	994	993	992	991	990	989	988	987	986	985	984	983	982	981	980	979	978	977	976	975	974	973	972	971	970	969	968	967	966	965	964	963	962	961	960	959	958	957	956	955	954	953	952	951	950	949	948	947	946	945	944	943	942	941	940	939	938	937	936	935	934	933	932	931	930	929	928	927	926	925	924	923	922	921	920	919	918	917	916	915	914	913	912	911	910	909	908	907	906	905	904	903	902	901	900	899	898	897	896	895	894	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Such factors are assembled in Table 9, which gives an idea as to sectional differences in costs per bushel and per acre, also yields and returns. The table is divided into two parts; the first shows costs in absolute figures, the second affords a comparison through percentages based upon the average for the United States taken as 100 per cent. The varying advantage or disadvantage in prices, costs, and yields can be followed more easily in these percentages. Taking Iowa as an illustration, it will be observed that price per bushel is 90 per cent of the United States average, yields 109, and the two combined in returns per acre 98. But the cost per acre, excluding land rental or interest, is only 84, and the ratio of returns to cost is high—204 per cent.

APPENDIX.

The data which follow, form the bases of Maps 1, 2, and 3, and are explained on pages 2 and 6.

Counties have been used as the smallest effective unit of measurement, for the reason that the usual State prices are frequently averages for large expanses of territory with dissimilar physical and price conditions. The basic figures were compiled from returns of some 30,000 township reporters for each of the five years 1910-1914, as of December 1. Observations for this period and for a like date of each year were employed to distinguish normal geographic variations from temporary deviations; and to further conduce thereto the price averages have been rounded to a five-cent unit to overcome occasional minor differences due to such causes as local variations in grade.

As the figures are designed to show geographic variation in prices paid to oat producers, counties with little or no oat production have been omitted (those with less than 500 acres in oats, according to the 1909 census).

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914.

[Cents per bushel.]

ALABAMA:	ALABAMA—Continued.	ARKANSAS—Continued.	CALIFORNIA—Contd.
55-59 cents—	70-74 cents—Contd.	50-54 cents—Contd.	55-59 cents—Contd.
Jackson.	Butler.	Montgomery.	Lassen.
Lauderdale.	Chambers.	Newton.	Merced.
Limestone.	Chilton.	Prairie.	Modoc.
Madison.	Coffee.	Randolph.	Monterey.
60-64 cents—	Conecuh.	Scott.	Napa.
Colbert.	Coosa.	Searcy.	Plumas.
Cullman.	Covington.	Sebastian.	Sacramento.
Dekalb.	Crenshaw.	Sharp.	San Benito.
Franklin.	Dale.	Stone.	San Francisco.
Lawrence.	Elmore.	White.	San Joaquin.
Marshall.	Escambia.	55-59 cents—	San Luis Obispo.
Morgan.	Geneva.	Clark.	San Mateo.
Walker.	Henry.	Conway.	Santa Barbara.
Winston.	Houston.	Faulkner.	Santa Clara.
65-69 cents—	Lee.	Garland.	Santa Cruz.
Autauga.	Pike.	Hempstead.	Shasta.
Blount.	Randolph.	Hot Spring.	Siskiyou.
Calhoun.	Russell.	Howard.	Solano.
Cherokee.	Shelby.	Logan.	Stanislaus.
Choctaw.	Tallapoosa.	Perry.	Sutter.
Clarke.	ARIZONA:	Pike.	Tehama.
Clay.	50-54 cents—	Polk.	Trinity.
Cleburne.	Maricopa.	Pope.	Yolo.
Dallas.	60-64 cents—	Pulaski.	60-64 cents—
Etowah.	Apache.	Saline.	Fresno.
Fayette.	ARKANSAS:	Sevier.	Humboldt.
Greene.	45-49 cents:	Van Buren.	Lake.
Hale.	Benton.	Yell.	Los Angeles.
Jefferson.	Boone.	60-64 cents—	Madera.
Lamar.	Carroll.	Ashley.	Marin.
Lowndes.	Madison.	Bradley.	Mendocino.
Macon.	Washington.	Calhoun.	Orange.
Marengo.	50-54 cents—	Columbia.	Riverside.
Marion.	Arkansas.	Drew.	San Diego.
Monroe.	Baxter.	Lafayette.	Sonoma.
Montgomery.	Clay.	Little River.	Ventura.
Perry.	Cleburne.	Miller.	COLORADO:
Pickens.	Craighead.	Nevada.	40-44 cents—
Saint Clair.	Crawford.	Ouachita.	Larimer.
Sumter.	Franklin.	Union.	Logan.
Talladega.	Fulton.	CALIFORNIA:	Morgan.
Tuscaloosa.	Greene.	55-59 cents—	Phillips.
Wilcox.	Independence.	Alameda.	Sedgwick.
70-74 cents—	Izard.	Amador.	Washington.
Barbour.	Johnson.	Colusa.	Weld.
Bibb.	Lonoke.	Contra Costa.	45-49 cents.
Bullock.	Marion.	Glenn.	Adams.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

COLORADO—Continued. 45-49 cents—Contd.	GEORGIA—Continued. 65-69 cents—Contd.	GEORGIA—Continued. 70-74 cents—Contd.	ILLINOIS—Continued. 35-39 cents—Contd.
Arapahoe.	Floyd.	Morgan.	Champaign.
Archuleta.	Forsyth.	Muscogee.	Christian.
Bent.	Gordon.	Newton.	Clark.
Boulder.	Habersham.	Oconee.	Coles.
Chaffee.	Hall.	Oglethorpe.	Crawford.
Conejos.	Haralson.	Paulding.	Cumberland.
Costilla.	Milton.	Pierce.	Dekalb.
Crowley.	Pickens.	Pike.	Dewitt.
Custer.	Polk.	Pulaski.	Douglas.
Denver.	White.	Putnam.	Edgar.
Douglas.	70-74 cents.	Quitman.	Edwards.
Eagle.	Appling.	Randolph.	Ford.
Elbert.	Baker.	Richmond.	Fulton.
El Paso.	Baldwin.	Rockdale.	Grundy.
Garfield.	Ben Hill.	Schley.	Hancock.
Huerfano.	Berrien.	Scriven.	Henderson.
Jefferson.	Bibb.	Spalding.	Henry.
Kit Carson.	Bleckley.	Stephens.	Iroquois.
La Plata.	Brooks.	Stewart.	Jasper.
Las Animas.	Bryan.	Sumter.	Jo Daviess.
Lincoln.	Bulloch.	Talbot.	Kankakee.
Moffat.	Burke.	Taliaferro.	Kendall.
Montezuma.	Butts.	Tattnall.	Knox.
Otero.	Calhoun.	Taylor.	La Salle.
Pitkin.	Campbell.	Telfair.	Lawrence.
Prowers.	Carroll.	Terrell.	Lee.
Pueblo.	Chatham.	Thomas.	Livingston.
Rio Blanco.	Chattahoochee.	Tift.	Logan.
Rio Grande.	Clarke.	Toombs.	McDonough.
Routt.	Clay.	Troup.	McLean.
Saguache.	Clayton.	Turner.	Macon.
Yuma.	Clinch.	Twiggs.	Marshall.
50-54 cents.	Cobb.	Upson.	Mason.
Delta.	Coffee.	Walton.	Menard.
Mesa.	Colquitt.	Ware.	Mercer.
Montrose.	Columbia.	Warren.	Morgan.
Ouray.	Coweta.	Washington.	Moultrie.
San Miguel.	Crawford.	Wayne.	Ogle.
CONNECTICUT:	Crisp.	Webster.	Peoria.
55-59 cents.	Decatur.	Wheeler.	Piatt.
Fairfield.	Dekalb.	Wilcox.	Putnam.
Hartford.	Dodge.	Wilkes.	Richland.
Litchfield.	Dooly.	Wilkinson.	Rock Island.
Middlesex.	Dougherty.	Worth.	Sangamon.
New London.	Douglas.	IDAHO:	Schuyler.
Tolland.	Early.	35-39 cents—	Scott.
Windham.	Effingham.	Bannock.	Shelby.
DELAWARE:	Elbert.	Bear Lake.	Stark.
45-49 cents.	Emanuel.	Bingham.	Stephenson.
New Castle.	Fayette.	Bonneville.	Tazewell.
50-54 cents.	Franklin.	Fremont.	Vermilion.
Kent.	Fulton.	40-44 cents—	Wabash.
Sussex.	Glasscock.	Blaine.	Warren.
FLORIDA:	Grady.	Boise.	Whiteside.
70-74 cents.	Greene.	Cassia.	Will.
Columbia.	Gwinnett.	Clearwater.	Winnebago.
Gadsden.	Hancock.	Custer.	Woodford.
Hamilton.	Harris.	Franklin.	40-44 cents—
Holmes.	Hart.	Gooding.	Adams.
Jackson.	Heard.	Idaho.	Bond.
Jefferson.	Henry.	Kootenai.	Calhoun.
Leon.	Houston.	Latah.	Clay.
Liberty.	Irwin.	Lemhi.	Cook.
Madison.	Jackson.	Lewis.	Dupage.
Suwanee.	Jasper.	Lincoln.	Effingham.
80-84 cents.	Jeff Davis.	Minidoka.	Fayette.
Alachua.	Jefferson.	Nez Perce.	Gallatin.
Bradford.	Jenkins.	Oneida.	Greene.
Levy.	Johnson.	Power.	Hamilton.
Marion.	Jones.	45-49 cents—	Hardin.
Sumter.	Laurens.	Ada.	Jefferson.
GEORGIA:	Lee.	Adams.	Jersey.
60-64 cents.	Liberty.	Canyon.	Johnson.
Catoosa.	Lincoln.	Elmore.	Kane.
Dade.	Lowndes.	Owyhee.	Lake.
Murray.	McDuffie.	Twin Falls.	McHenry.
Walker.	Macon.	Washington.	Macoupin.
Whitfield.	Madison.	ILLINOIS:	Marion.
65-69 cents.	Marion.	35-39 cents—	Montgomery.
Banks.	Meriwether.	Boone.	Pike.
Bartow.	Miller.	Brown.	Pope.
Chattooga.	Mitchell.	Bureau.	Saline.
Cherokee.	Monroe.	Carroll.	Wayne.
Dawson.	Montgomery.	Cass.	White.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

ILLINOIS—Continued.

45-49 cents—
Alexander.
Clinton.
Franklin.
Jackson.
Madison.
Massac.
Monroe.
Perry.
Pulaski.
Randolph.
Saint Clair.
Union.
Washington.
Williamson.

INDIANA:

35-39 cents—
Adams.
Allen.
Benton.
Blackford.
Boone.
Carroll.
Cass.
Clinton.
DeKalb.
Delaware.
Elkhart.
Fountain.
Fulton.
Grant.
Hamilton.
Hancock.
Hendricks.
Henry.
Howard.
Huntington.
Jasper.
Jay.
Kosciusko.
Lagrange.
Laporte.
Madison.
Marshall.
Miami.
Montgomery.
Newton.
Noble.
Parke.
Porter.
Pulaski.
Putnam.
Randolph.
Rush.
Saint Joseph.
Starke.
Steuben.
Tippecanoe.
Tipton.
Vermilion.
Wabash.
Warren.
Wayne.
Wells.
White.
Whitley.
40-44 cents—
Bartholomew.
Brown.
Clark.
Clay.
Crawford.
Davies.
Dearborn.
Decatur.
Dubois.
Fayette.
Floyd.
Franklin.
Gibson.
Greene.
Harrison.
Jackson.
Jefferson.
Jennings.
Johnson.

INDIANA—Continued.

40-44 cents—Contd.
Knox.
Lake.
Lawrence.
Marion.
Martin.
Monroe.
Morgan.
Ohio.
Orange.
Owen.
Perry.
Pike.
Posey.
Ripley.
Scott.
Shelby.
Spencer.
Sullivan.
Switzerland.
Union.
Vanderburg.
Vigo.
Warrick.
Washington.
Iowa:
35-39 cents—
Adair.
Adams.
Allamakee.
Appanoose.
Audubon.
Benton.
Blackhawk.
Boone.
Bremer.
Buchanan.
Buena Vista.
Butler.
Calhoun.
Carroll.
Cass.
Cedar.
Cerro Gordo.
Cherokee.
Chickasaw.
Clarke.
Clay.
Clayton.
Clinton.
Crawford.
Dallas.
Davis.
Decatur.
Delaware.
Des Moines.
Dickinson.
Emmet.
Fayette.
Floyd.
Franklin.
Fremont.
Greene.
Grundy.
Guthrie.
Hamilton.
Hancock.
Hardin.
Harrison.
Henry.
Howard.
Humboldt.
Ida.
Iowa.
Jasper.
Jefferson.
Johnson.
Jones.
Keokuk.
Kossuth.
Lee.
Linn.
Louisa.
Lucas.
Lyon.
Madison.

IOWA—Continued.

35-39 cents—Contd.
Mahaska.
Marion.
Marshall.
Mills.
Mitchell.
Monona.
Monroe.
Montgomery.
Muscatine.
O'Brien.
Osceola.
Page.
Palo Alto.
Plymouth.
Pocahontas.
Polk.
Pottawattamie.
Poweshiek.
Ringgold.
Sac.
Scott.
Shelby.
Sioux.
Story.
Tama.
Taylor.
Union.
Van Buren.
Wapello.
Warren.
Washington.
Wayne.
Webster.
Winnebago.
Winneshek.
Woodbury.
Worth.
Wright.
40-44 cents—
Dubuque.
Jackson.
KANSAS:
35-39 cents—
Brown.
Doniphan.
Marshall.
Nemaha.
40-44 cents—
Allen.
Anderson.
Atchison.
Bourbon.
Butler.
Chase.
Chautauqua.
Cherokee.
Clay.
Cloud.
Coffey.
Cowley.
Crawford.
Dickinson.
Douglas.
Elk.
Franklin.
Geary.
Greenwood.
Jackson.
Jefferson.
Jewell.
Johnson.
Kingman.
Labette.
Leavenworth.
Linn.
Lyon.
McPherson.
Marion.
Miami.
Montgomery.
Morris.
Neosho.
Osage.

KANSAS—Continued.

40-44 cents—Contd.
Pottawattamie.
Reno.
Republic.
Rice.
Riley.
Sedgwick.
Shawnee.
Sumner.
Wabaunsee.
Washington.
Wilson.
Woodson.
Wyandotte.
45-49 cents—
Barber.
Barton.
Cheyenne.
Clark.
Decatur.
Edwards.
Ellis.
Ellsworth.
Ford.
Gove.
Graham.
Hodgeman.
Lane.
Lincoln.
Logan.
Meade.
Mitchell.
Ness.
Norton.
Osborne.
Ottawa.
Pawnee.
Phillips.
Pratt.
Rawlins.
Rooks.
Rush.
Russell.
Saline.
Scott.
Sheridan.
Sherman.
Smith.
Stafford.
Trego.
KENTUCKY:
45-49 cents—
Anderson.
Boone.
Boyd.
Boyle.
Bracken.
Breckinridge.
Bullitt.
Campbell.
Carrroll.
Carter.
Davies.
Elliott.
Fleming.
Franklin.
Fulton.
Gallatin.
Grant.
Graves.
Greenup.
Hancock.
Hardin.
Henry.
Hickman.
Jefferson.
Johnson.
Kenton.
Larue.
Lawrence.
Lewis.
Marion.
Mason.
Meade.
Mercer.
Nelson.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

KENTUCKY—Continued.

45-49 cents—Contd.

Ohio.
Oldham.
Owen.
Pendleton.
Robertson.
Rowan.
Shelby.
Spencer.
Trimble.
Washington.

50-54 cents—

Adair.
Allen.
Barren.
Bath.
Bourbon.
Butler.
Casey.
Christian.
Clay.
Edmonson.
Fayette.
Garrard.
Grayson.
Greene.
Harrison.
Hart.
Jackson.
Jessamine.
Knox.
Laurel.
Lincoln.
Logan.
Madison.
Menefee.
Metcalfe.
Monroe.
Montgomery.
Morgan.
Nicholas.
Owsley.
Pulaski.
Rockcastle.
Scott.
Simpson.
Taylor.
Todd.
Warren.
Wolfe.
Woodford.

55-59 cents—

McCreary.
Wayne.
Whitley.

LOUISIANA:

60-64 cents—

Bienville.
Bossier.
Claiborne.
Jackson.
Lincoln.
Ouachita.
Sabine.
Union.
Webster.
Winn.

MAINE:

50-54 cents—

Androscoggin.
Cumberland.
Kennebec.
Knox.
Lincoln.
Oxford.
Sagadahoc.
Waldo.
York.
55-59 cents—
Aroostook.
Franklin.
Hancock.
Penobscot.
Piscataquis.
Somerset.
Washington.

MARYLAND:

45-49 cents—

Anne Arundel.
Baltimore.
Caroline.
Cecil.
Frederick.
Harford.
Howard.
Kent.
Montgomery.
Prince Georges.

50-54 cents—

Allegany.
Garrett.
Somerset.
Washington.
Worcester.

MASSACHUSETTS:

55-59 cents—

Berkshire.

MICHIGAN:

35-39 cents—

Branch.
Cass.
Hillsdale.
Lenawee.
St. Joseph.
40-44 cents.

Alcona.
Allegan.
Arenac.
Barry.
Bay.
Berrien.
Calhoun.
Clare.
Clinton.
Eaton.
Genesee.
Gladwin.
Gratiot.
Huron.
Ingham.
Ionia.
Iosco.
Isabella.
Jackson.
Kalamazoo.
Kent.
Lapeer.
Livingston.
Macomb.
Mecosta.
Midland.
Missaukee.
Monroe.
Montcalm.
Muskegon.
Newaygo.
Oakland.
Oceana.
Ogemaw.
Osceola.
Oscoda.
Ottawa.
Saginaw.
St. Clair.
Sanilac.
Shiawassee.
Tuscola.
Van Buren.
Washtenaw.
Wayne.
Wexford.
45-49 cents.
Alpena.
Antrim.
Baraga.
Benzie.
Charlevoix.
Cheboygan.
Chippewa.
Crawford.
Delta.
Dickinson.
Emmet.

MICHIGAN—Continued.

45-49 cents—Contd.

Grand Traverse.
Houghton.
Kalkaska.
Keweenaw.
Lake.
Leelanau.
Luce.
Mackinac.
Manistee.
Marquette.
Mason.
Menominee.
Montmorency.
Ontonagon.
Otsego.
Presque Isle.
Roscommon.

MINNESOTA:

30-34 cents—

Bigstone.
Chippewa.
Clay.
Grant.
Kandiyohi.
Lac Qui Parle.
Lincoln.
Lyon.
Norman.
Renville.
Stevens.
Swift.
Traverse.
Wilkin.
Yellow Medicine.

35-39 cents.

Anoka.
Becker.
Benton.
Blue Earth.
Brown.
Carver.
Chisago.
Cottonwood.
Dakota.
Dodge.
Douglas.
Faribault.
Fillmore.
Freeborn.
Goodhue.
Hennepin.
Houston.
Isanti.
Jackson.
Kittson.
Lesueur.
McLeod.
Mahnomon.
Marshall.
Martin.
Meeker.
Millelacs.
Morrison.
Mower.
Murray.
Nicollet.
Nobles.
Olmsted.
Ottertail.
Pennington.
Pipestone.
Polk.
Pope.
Ramsey.
Red Lake.
Redwood.
Rice.
Rock.
Scott.
Sherburne.
Sibley.
Stearns.
Steele.
Todd.
Wabasha.
Wadena.

MINNESOTA—Contd.

35-39 cents—Contd.

Waseca.
Washington.
Watsonwan.
Winona.
Wright.
40-44 cents—
Aitkin.
Beltrami.
Carlton.
Cass.
Clearwater.
Crow Wing.
Hubbard.
Kanabec.
Pine.
Roseau.
St. Louis.

MISSISSIPPI:

60-64 cents—

Amité.
Attala.
Calhoun.
Chickasaw.
Choctaw.
Clay.
Copiah.
Hinds.
Itawamba.
Lawrence.
Lincoln.
Madison.
Marion.
Monroe.
Pike.
Pontotoc.
Rankin.
Union.
Webster.
Wilkinson.
Yalobusha.
65-69 cents—
Clarke.
Covington.
Forrest.
Jasper.
Jefferson Davis.
Jones.
Kemper.
Lauderdale.
Leake.
Lowndes.
Neshoba.
Newton.
Noxubee.
Oktibbeha.
Perry.
Scott.
Simpson.
Smith.
Wayne.
Winston.

MISSOURI:

35-39 cents—

Adair.
Atchison.
Caldwell.
Clark.
Davies.
Gentry.
Grundy.
Harrison.
Holt.
Knox.
Lewis.
Linn.
Livingston.
Macon.
Mercer.
Nodaway.
Putnam.
Schuyler.
Scotland.
Shelby.
Sullivan.
Worth.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

MISSOURI—Continued. 40-44 cents— Andrew. Audrain. Barry. Barton. Bates. Benton. Boone. Buchanan. Callaway. Carroll. Cass. Cedar. Chariton. Clay. Clinton. Cooper. Dade. DeKalb. Greene. Henry. Hickory. Howard. Jackson. Jasper. Johnson. Lafayette. Lawrence. Lincoln. McDonald. Marion. Moniteau. Monroe. Montgomery. Morgan. Pettis. Pike. Platte. Polk. Ralls. Randolph. Ray. St. Charles. St. Clair. Saline. Stone. Vernon. Warren.	MISSOURI—Continued. 50-54 cents—Contd. Texas. Washington. Wayne. Wright. MONTANA: 35-39 cents— Beaverhead. Blaine. Cascade. Chouteau. Dawson. Flathead. Granite. Hill. Lewis & Clark. Lincoln. Madison. Missoula. Powell. Ravalli. Sanders. Sheridan. Teton. Valley. 40-44 cents— Big Horn. Broadwater. Carbon. Custer. Fergus. Gallatin. Jefferson. Meagher. Musselshell. Park. Rosebud. Stillwater. Sweet Grass. Yellowstone.	NEBRASKA—Continued. 35-39 cents—Contd. Seward. Stanton. Tiayer. Thurston. Valley. Washington. Wayne. Wheeler. York. 40-44 cents— Adams. Banner. Box Butte. Buffalo. Chase. Cherry. Cheyenne. Dawes. Dawson. Deuel. Dundy. Franklin. Frontier. Furnas. Garden. Gosper. Hall. Harlan. Hayes. Hitchcock. Howard. Kearney. Keith. Kimball. Lincoln. Logan. Morrill. Perkins. Phelps. Redwillow. Scotts Bluff. Sheridan. Sherman. Sioux. Webster.	NEW YORK—Contd. 45-49 cents—Contd. Cortland. Erie. Genesee. Jefferson. Lewis. Livingston. Madison. Monroe. Niagara. Onondaga. Ontario. Orleans. Oswego. Schuyler. Seneca. Steuben. Tioga. Tompkins. Wayne. Wyoming. Yates. 50-54 cents— Albany. Clinton. Columbia. Delaware. Dutchess. Essex. Franklin. Fulton. Greene. Herkimer. Montgomery. Oneida. Orange. Otsego. Rensselaer. St. Lawrence. Saratoga. Schenectady. Schoharie. Sullivan. Ulster. Warren. Washington.
45-49 cents— Bollinger. Butler. Camden. Cape Girardeau. Christian. Cole. Crawford. Dallas. Douglas. Franklin. Gasconade. Howell. Jefferson. Laclede. Maries. Miller. Oregon. Osage. Ozark. Perry. Ripley. St. Genevieve. St. Louis. Scott. Shannon. Stoddard. Taney. Webster.	NEBRASKA: 35-39 cents— Antelope. Blaine. Boone. Boyd. Brown. Burt. Butler. Cass. Cedar. Clay. Collax. Cuming. Custer. Dakota. Dixon. Dodge. Douglas. Fillmore. Gage. Garfield. Greeley. Hamilton. Holt. Jefferson. Johnson. Keyapaha. Knox. Lancaster. Loup. Madison. Merrick. Nance. Nemaha. Nuckolls. Otoe. Pawnee. Pierce. Platte. Polk. Richardson. Rock. Saline. Sarpy. Saunders.	NEW JERSEY: 45-49 cents— Burlington. Camden. Gloucester. Hunterdon. Mercer. Middlesex. Morris. Salem. Somerset. Warren. 50-54 cents— Sussex. NEW HAMPSHIRE: 50-54 cents— Coos. Grafton. 55-59 cents— Cheshire. Sullivan. NEW MEXICO: 50-54 cents— Chaves. Colfax. Mora. Otero. Rio Arriba. San Juan. San Miguel. Taos. NEW YORK: 45-49 cents— Allegany. Broome. Cattaraugus. Cayuga. Chautauqua. Chemung. Chenango.	NEVADA: 55-59 cents— Elko. White Pine. NORTH CAROLINA: 55-59 cents— Alleghany. Ashe. Avery. Buncombe. Haywood. Mitchell. Watauga. Yancey. Madison. 60-64 cents— Alexander. Burke. Caldwell. Catawba. Davidson. Davie. Iredell. Rowan. Surry. Wilkes. Yadkin. 65-69 cents— Alamance. Anson. Cabarrus. Caswell. Chatham. Cleveland. Columbus. Cumberland. Durham. Edgecombe. Forsyth. Franklin.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

NORTH CAROLINA—Con.
65-69 cents—Contd.

Gaston.
Granville.
Greene.
Guilford.
Halifax.
Harnett.
Hoke.
Johnston.
Lee.
Lenoir.
Lincoln.
Mecklenburg.
Montgomery.
Moore.
Nash.
Orange.
Person.
Pitt.
Randolph.
Richmond.
Robeson.
Rockingham.
Rutherford.
Scotland.
Stanly.
Stokes.
Union.
Vance.
Wake.
Warren.
Wayne.
Wilson.

NORTH DAKOTA:
30-34 cents—

Barnes.
Benson.
Bottineau.
Burke.
Cass.
Cavalier.
Divide.
Eddy.
Foster.
Grand Forks.
Griggs.
McHenry.
Nelson.
Pembina.
Pierce.
Ramsey.
Ransom.
Renville.
Richland.
Rquette.
Sargent.
Sheridan.
Steele.
Stutsman.
Towner.
Traill.
Walsh.
Ward.
Wells.

35-39 cents—

Adams.
Billings.
Bowman.
Burleigh.
Dickey.
Dunn.
Emmons.
Golden Valley.
Hettinger.
Kidder.
La Moure.
Logan.
McIntosh.
McKenzie.
McLean.
Mercer.
Mountrail.
Morton.
Oliver.
Stark.
Williams.

OHIO:

35-39 cents—

Allen.
Auglaize.
Champaign.
Crawford.
Defiance.
Fulton.
Hancock.
Hardin.
Henry.
Logan.
Madison.
Marion.
Mercer.
Paulding.
Putnam.
Seneca.
Shelby.
Union.
Van Wert.
Williams.
Wood.
Wyandot.

40-44 cents—

Adams.
Ashland.
Brown.
Butler.
Clark.
Clermont.
Clinton.
Coshocton.
Darke.
Delaware.
Erie.
Fairfield.
Fayette.
Franklin.
Greene.
Hamilton.
Highland.
Hocking.
Holmes.
Huron.
Knox.
Licking.
Lorain.
Lucas.
Medina.
Miami.
Montgomery.
Morrow.
Ottawa.
Pickaway.
Pike.
Preble.
Richland.
Ross.
Sandusky.
Scioto.
Stark.
Tuscarawas.
Warren.
Wayne.

45-49 cents—

Ashtabula.
Athens.
Belmont.
Carroll.
Columbiana.
Cuyahoga.
Gallia.
Geauga.
Guernsey.
Harrison.
Jackson.
Jefferson.
Lake.
Lawrence.
Mahoning.
Meigs.
Monroe.
Morgan.
Muskingum.
Noble.
Portage.
Summit.

OHIO—Continued.

45-49 cents—Contd.

Trumbull.
Vinton.
Washington.

OKLAHOMA:

40-44 cents—

Adair.
Alfalfa.
Blaine.
Caddo.
Canadian.
Cherokee.
Cleveland.
Comanche.
Cotton.
Craig.
Custer.
Delaware.
Dewey.
Ellis.
Garfield.
Garvin.
Grady.
Grant.
Harper.
Jackson.
Jefferson.
Kay.
Kingfisher.
Kiowa.
Logan.
McClain.
Major.
Mayes.
Murray.
Noble.
Nowata.
Oklahoma.
Osage.
Ottawa.
Pawnee.
Payne.
Pottawatomie.
Rogers.
Stephens.
Tillman.
Tulsa.
Wagoner.
Washington.
Washita.
Woods.
Woodward.

45-49 cents—

Beaver.
Beckham.
Bryan.
Carter.
Cimarron.
Coal.
Greer.
Harmon.
Haskell.
Hughes.
Johnston.
Lincoln.
McIntosh.
Marshall.
Muskogee.
Okfuskee.
Okmulgee.
Pontotoc.
Roger Mills.
Seminole.
Texas.

50-54 cents—

Atoka.
Choctaw.
Le Flore.
Pittsburg.
Sequoyah.

OREGON:

40-44 cents—

Umatilla.
Union.
Wallowa.
45-49 cents—
Benton.

OREGON—Continued.

45-49 cents—Contd.

Clackamas.
Columbia.
Lane.
Linn.
Marion.
Multnomah.
Polk.
Sherman.
Wasco.
Washington.
Yamhill.

50-54 cents—

Baker.
Crook.
Douglas.
Grant.
Harney.
Klamath.
Malheur.

PENNSYLVANIA:

45-49 cents—

Adams.
Allegheny.
Armstrong.
Beaver.
Bedford.
Berks.
Blair.
Bradford.
Bucks.
Butler.
Center.
Chester.
Clarion.
Clinton.
Columbia.
Crawford.
Cumberland.
Dauphin.
Delaware.
Erie.
Fayette.
Franklin.
Fulton.
Greene.
Huntingdon.
Jefferson.
Juniata.
Lancaster.
Lawrence.
Lebanon.
Lehigh.
Lycoming.
McKean.
Mercer.
Mifflin.
Monroe.
Montgomery.
Montour.
Northampton.
Northumberland.
Perry.
Philadelphia.
Potter.
Snyder.
Somerset.
Sullivan.
Susquehanna.
Tioga.
Union.
Venango.
Warren.
Washington.
Westmoreland.
Wyoming.
York.

50-54 cents—

Cambria.
Cameron.
Carbon.
Clearfield.
Elk.
Forest.
Indiana.
Lackawanna.
Luzerne.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

PENNSYLVANIA—Contd. 50-54 cents—Contd. Pike. Schuylkill. Wayne.	SOUTH DAKOTA—Con. 35-39 cents—Contd. Minnehaha. Spink. Tripp. Turner. Union. Yankton.	TENNESSEE—Contd. 50-54 cents—Contd. Sumner. Trousdale. Unicoi. Union. Van Buren. Warren. Washington. Wayne. Weakley. White.	TEXAS—Continued. 50-54 cents—Contd. Hays. Hill. Hunt. Johnson. Kaufman. Kerr. McLennan. Medina. Parker. Rockwall. Tarrant. Travis. Williamson. Wise.
SOUTH CAROLINA: 70-74 cents— Abbeville. Aiken. Anderson. Bamberg. Barnwell. Beaufort. Berkeley. Calhoun. Charleston. Cherokee. Chester. Chesterfield. Clarendon. Colleton. Darlington. Dillon. Dorchester. Edgefield. Fairfield. Florence. Georgetown. Greenville. Greenwood. Hampton. Horry. Jasper. Kershaw. Lan-aster. Laurens. Lee. Lexington. Marion. Marlboro. Newberry. Oconee. Orangeburg. Pickens. Richland. Saluda. Spartanburg. Sumter. Union. Williamsburg. York.	40-44 cents— Campbell. Edmunds. Faulk. Harding. Hughes. Hyde. Lyman. Perkins. Potter. Sully. Walworth. 45-49 cents— Butte. Custer. Fall River. Lawrence. Meade. Pennington. Stanley. TENNESSEE: 45-49 cents— Davidson. Hickman. Lewis. Maury. Rutherford. Smith. Williamson. Wilson. 50-54 cents— Bedford. Blount. Cannon. Carroll. Carter. Cheatham. Claiborne. Clay. Cocke. Coffee. Crockett. Decatur. Dekalb. Dickson. Dyer. Franklin. Gibson. Giles. Grainger. Greene. Grundy. Hamblen. Hancock. Hawkins. Haywood. Henderson. Henry. Humphreys. Jackson. Jefferson. Johnson. Knox. Lauderdale. Lawrence. Lincoln. Macon. Madison. Marshall. Monroe. Montgomery. Moore. Obion. Perry. Putnam. Robertson. Sevier. Sullivan.	55-59 cents— Anderson. Bradley. Campbell. Chester. Fayette. Fentress. Hamilton. Hardeman. Hardin. James. Loudon. McMinn. McNairy. Marion. Meigs. Overton. Pickett. Polk. Rhea. Roane. Scott. Shelby. Tipton.	55-59 cents— Delta. Falls. Henderson. Hopkins. Iamar. Limestone. Milam. Navarro. Rains. Red River. Van Zandt. Wood. 60-64 cents— Anderson. Bowie. Cass. Cherokee. Cocogdoches. Rusk. Shelby. Smith.
SOUTH DAKOTA: 30-34 cents— Beadle. Brookings. Clark. Codington. Day. Deuel. Grant. Hamlin. Jerauld. Kingsbury. Lake. Marshall. Miner. Moody. Roberts. Sanborn. 35-39 cents— Aurora. Bonhomme. Brown. Brule. Buffalo. Charles Mix. Clay. Davison. Douglas. Gregory. Hand. Hanson. Hutchinson. Lincoln. McCook. McPherson.		TEXAS: 45-49 cents— Archer. Armstrong. Baylor. Blanco. Bosque. Briscoe. Burnet. Carson. Clay. Collingsworth. Cooke. Coryell. Deaf Smith. Floyd. Foard. Gillespie. Gray. Grayson. Hale. Hamilton. Hansford. Hardeman. Haskell. Hemphill. Hutchinson. Kendall. Knox. Lampasas. Montague. Ochiltree. Potter. Randall. Sherman. Swisher. Taylor. Wichita. Wilbarger. Young. 50-54 cents— Bandera. Bell. Bexar. Collin. Comal. Dallas. Denton. Ellis. Fannin.	UTAH: 45-49 cents— Boxelder. Cache. Carbon. Davis. Emery. Juab. Morgan. Rich. Salt Lake. Sanpete. Sevier. Summit. Tooele. Uinta. Utah. Wasatch. Wayne. Weber. 50-54 cents— Beaver. Garfield. Iron. Millard. Piute. San Juan. VERMONT: 50-54 cents— Addison. Bennington. Caledonia. Chittenden. Essex. Franklin. Grand Isle. Lamoille. Orange. Orleans. Rutland. Washington. Windsor. 55-59 cents— Windham. VIRGINIA: 50-54 cents— Albermarle. Alexandria. Augusta.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

VIRGINIA—Continued.

50-54 cents—Contd.
 Botetourt.
 Caroline.
 Clarke.
 Culpeper.
 Essex.
 Fairfax.
 Fauquier.
 Floyd.
 Frederick.
 Greene.
 King George.
 Lancaster.
 Lee.
 Loudoun.
 Madison.
 Montgomery.
 Northumberland.
 Orange.
 Page.
 Prince William.
 Pulaski.
 Rappahannock.
 Richmond.
 Roanoke.
 Rockbridge.
 Rockingham.
 Scott.
 Shenandoah.
 Smyth.
 Spotsylvania.
 Stafford.
 Warren.
 Washington.
 Westmoreland.
 Wythe.

55-59 cents—
 Amelia.
 Amherst.
 Appomattox.
 Bedford.
 Bland.
 Buckingham.
 Campbell.
 Carroll.
 Charles City.
 Chesterfield.
 Fluvanna.
 Franklin.
 Giles.
 Gloucester.
 Grayson.
 Hanover.
 Henrico.
 James City.
 King and Queen.
 King William.
 Louisa.
 Mathews.
 Middlesex.
 Nelson.
 New Kent.
 Patrick.
 Tazewell.
 Warwick.
 Wise.
 York.
 60-64 cents—
 Buchanan.

VIRGINIA—Continued.

60-64 cents—Contd.
 Cumberland.
 Dickenson.
 Dinwiddie.
 Goochland.
 Nottaway.
 Powhatan.
 Prince Edward.
 Prince George.
 Russell.
 65-69 cents—
 Brunswick.
 Charlotte.
 Halifax.
 Henry.
 Lunenburg.
 Mecklenburg.
 Pittsylvania.

WASHINGTON:

40-44 cents—
 Adams.
 Columbia.
 Ferry.
 Franklin.
 Lincoln.
 Spokane.
 Stevens.
 Walla Walla.
 Whitman.
 45-49 cents—
 Chelan.
 Clarke.
 Cowitz.
 Douglas.
 Grant.
 King.
 Kittitas.
 Klickitat.
 Lewis.
 Okanogan.
 Pend Oreille.
 Pierce.
 Skagit.
 Snohomish.
 Thurston.
 Whatcom.
 Yakima.

WEST VIRGINIA:

45-49 cents—
 Brooke.
 Cabell.
 Hancock.
 Jackson.
 Marshall.
 Mason.
 Ohio.
 Pleasants.
 Tyler.
 Wetzel.
 Wood.
 50-54 cents—
 Barbour.
 Berkeley.
 Doddridge.
 Hampshire.
 Hardy.
 Harrison.
 Jefferson.
 Kanawha.

WEST VIRGINIA—Con.

50-54 cents—Contd.
 Lincoln.
 Marion.
 Mineral.
 Monongalia.
 Morgan.
 Preston.
 Putnam.
 Ritchie.
 Roane.
 Taylor.
 Wayne.
 Wirt.
 55-59 cents—
 Braxton.
 Calhoun.
 Clay.
 Fayette.
 Gilmer.
 Grant.
 Greenbrier.
 Lewis.
 McDowell.
 Mercer.
 Monroe.
 Nicholas.
 Pendleton.
 Pocahontas.
 Raleigh.
 Randolph.
 Summers.
 Tucker.
 Upshur.
 Webster.
 Wyoming.

WISCONSIN:

35-39 cents—
 Buffalo.
 Chippewa.
 Dunn.
 Eau Claire.
 Jackson.
 Juneau.
 La Crosse.
 Monroe.
 Pepin.
 Pierce.
 Polk.
 St. Croix.
 Trempealeau.
 Vernon.
 40-44 cents—
 Adams.
 Barron.
 Brown.
 Burnett.
 Calumet.
 Clark.
 Columbia.
 Crawford.
 Dane.
 Dodge.
 Door.
 Fond du Lac.
 Grant.
 Green.
 Green Lake.
 Iowa.
 Jefferson.

WISCONSIN—Contd.

40-44 cents—Contd.
 Kenosha.
 Kewaunee.
 Lafayette.
 Manitowoc.
 Marathon.
 Marquette.
 Milwaukee.
 Oconto.
 Outagamie.
 Ozaukee.
 Portage.
 Racine.
 Richland.
 Rock.
 Rusk.
 Sauk.
 Sawyer.
 Shawano.
 Sheboygan.
 Taylor.
 Walworth.
 Washburn.
 Washington.
 Waukesha.
 Waupaca.
 Waushara.
 Winnebago.
 Wood.
 45-49 cents—
 Ashland.
 Bayfield.
 Douglas.
 Florence.
 Forest.
 Iron.
 Langlade.
 Lincoln.
 Marinette.
 Oneida.
 Price.
 Vilas.
 WYOMING:
 40-44 cents—
 Gosben.
 Laramie.
 Lincoln.
 Platte.
 45-49 cents—
 Albany.
 Bighorn.
 Campbell.
 Converse.
 Crook.
 Hot Springs.
 Johnson.
 Niobrara.
 Park.
 Sheridan.
 Uinta.
 Washakie.
 Weston.
 50-54 cents—
 Carbon.
 Fremont.
 Natrona.
 Sweetwater.

